



# Community Profile Report

## December 1 2022

The Community Profile Report (CPR) is generated by the Data Strategy and Execution Workgroup, under the White House COVID-19 Team. It is managed by an interagency team with representatives from multiple agencies and offices (including the United States Department of Health and Human Services, the Centers for Disease Control and Prevention, the Assistant Secretary for Preparedness and Response, and the Indian Health Service). The CPR provides easily interpretable information on key indicators for all regions, states, core-based statistical areas (CBSAs), and counties across the United States. It is a daily snapshot in time that:

- Focuses on recent COVID-19 outcomes in the last seven days and changes relative to the week prior
- Provides additional contextual information at the county, CBSA, state and regional levels
- Supports rapid visual interpretation of results with color thresholds

Data in this report may differ from data on state and local websites. This may be due to differences in how data were reported (e.g., date specimen obtained, or date reported for cases) or how the metrics are calculated. Historical data may be updated over time due to delayed reporting. Data presented here use standard metrics across all geographic levels in the United States. It facilitates the understanding of COVID-19 pandemic trends across the United States by using standardized data. The footnotes describe each data source and the methods used for calculating the metrics. For additional data for any particular locality, visit the relevant health department website. Additional data and features are forthcoming.

**White House COVID-19 Team, Data Strategy and Execution Workgroup**

All inquiries and requests for information to DSEW should be directed to <https://wwwn.cdc.gov/dcs/ContactUs/Form>.

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# COMMUNITY PROFILE REPORT

## Table of Contents

<b>National Time Series</b>	<b>3. National time series</b> (national case, death, percent test positivity, and hospital admission curves) <b>4. Time series by Census Region</b> (regional case, death, percent test positivity, and hospital admission curves)
<b>National Maps</b>	<b>5. Number of new cases and deaths in the last 7 days</b> <b>6-8. Case incidence/Mortality rate/NAAT positivity in the last 7 days and comparison to the previous 7 days</b> <b>9. Hospital admissions in the last 7 days and comparison to the previous 7 days</b> <b>10-11. Hospital inpatient/ICU COVID-19 utilization in the last 7 days and comparison to the previous 7 days</b> <b>12. Vaccination rates by county and doses administered</b> (% of total population and doses administered per 100,000 population) <b>13. Vaccination booster rates by county</b> (% of total fully vaccinated population and % of 65+ population with a 1st booster) <b>14. COVID-19 community level</b> (describes county-level risk and potential for health care system strain based on hospital and case metrics) <b>15. Area of Concern Continuum</b> (describes communities as they progress through stages of the epidemic) <b>16. Area of Concern Continuum - Rapid Riser Counties</b> (highlights counties with recent acceleration in cases)
<b>National and State Profiles</b>	<b>17. National and regional metrics</b> (key indicators at the regional and national levels) <b>18. State profiles</b> (states with summary information listed alphabetically)
<b>National Trends</b>	<b>19. Trends in case incidence during the last 8 weeks</b> (state, regional, and national case incidence curves) <b>20. Trends in mortality rate during the last 4 weeks and 4 week forecast</b> (state and national mortality curves, with 4-week CDC ensemble forecast) <b>21. Trends in NAAT positivity during the last 8 weeks</b> (state, regional and national, percent test positivity curves) <b>22. Trends in emergency department discharge diagnoses during the last 8 weeks</b> (state, regional, and national ED visit curves) <b>23. Trends in hospital admissions per 100 beds during the last 8 weeks</b> (state, regional, and national hospital admission curves) <b>24-25. Trends in hospital inpatient/ICU COVID utilization during the last 8 weeks</b> (state, regional, and national hospital utilization curves) <b>26. Trends in percent of population aged &lt;5 initiating vaccination during the last 8 weeks</b> (state, regional, and national vaccine doses administered curves) <b>27. Trends in percent of population aged 5+ initiating vaccination during the last 8 weeks</b> (state, regional, and national vaccine doses administered curves) <b>28. Trends in rates of vaccine doses administered during the last 8 weeks</b> (state, regional, and national vaccine doses administered curves) <b>29. Trends in viral (NAAT) lab test positivity by age group and FEMA Region</b> <b>30. Trends in viral (NAAT) lab test volume by age group and FEMA Region</b> <b>31. Trends in hospital admissions per 100k by age group and FEMA Region</b>
<b>Data Sources and Methods</b>	<b>32. Data sources and methods</b> (data sources and notes for cases and deaths, testing data, and hospital data) <b>33. Data sources and methods – color thresholds</b> (definitions for color coding used throughout slides) <b>34. Data sources and methods – dynamic data notes</b> (data notes that are updated each day or as needed) <b>35. Data sources and methods – AOC Continuum</b> (detailed description of 7 stages of the epidemic described within the AOC continuum)

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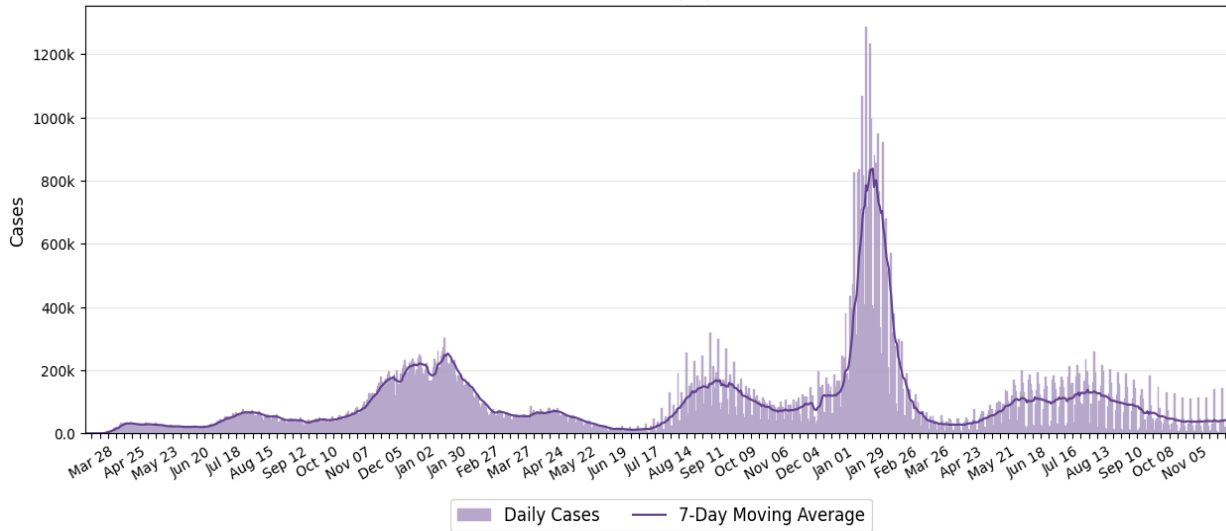
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# NATIONAL TIME SERIES

## New Cases

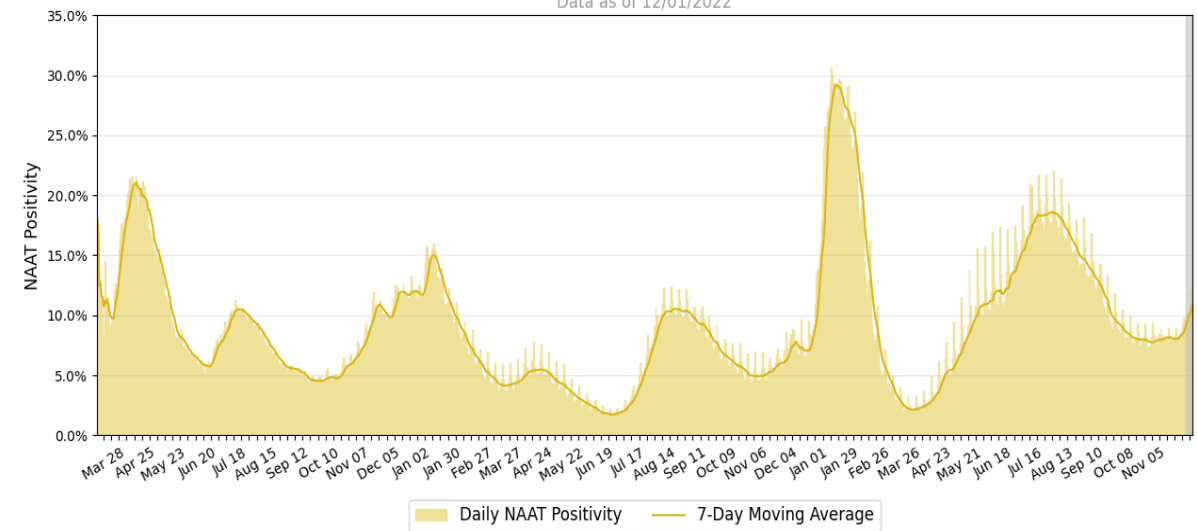
Data as of 12/01/2022



## NAAT Positivity

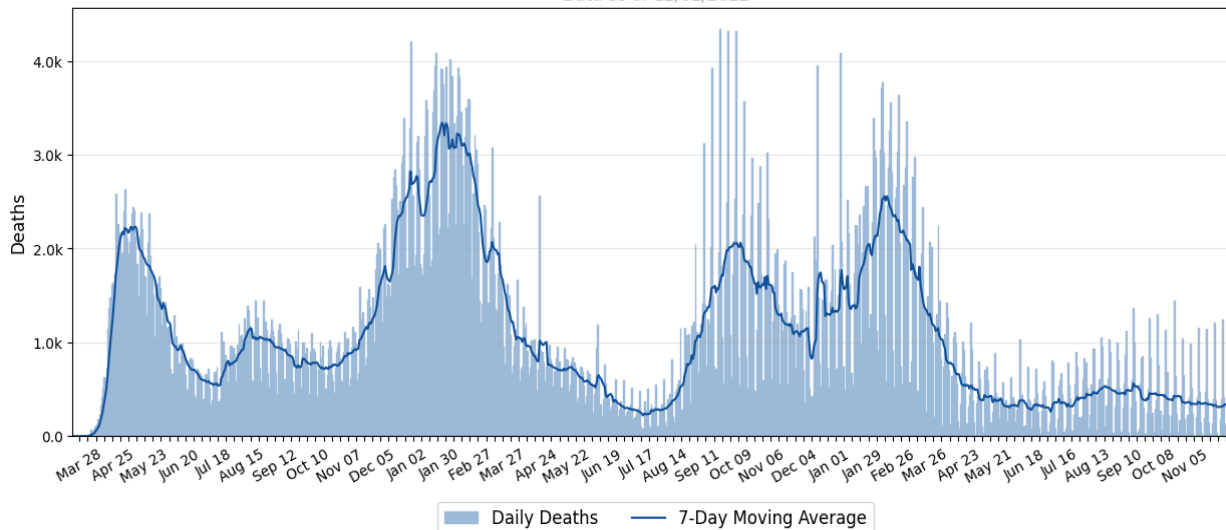
Data as of 12/01/2022

Incomplete Reporting



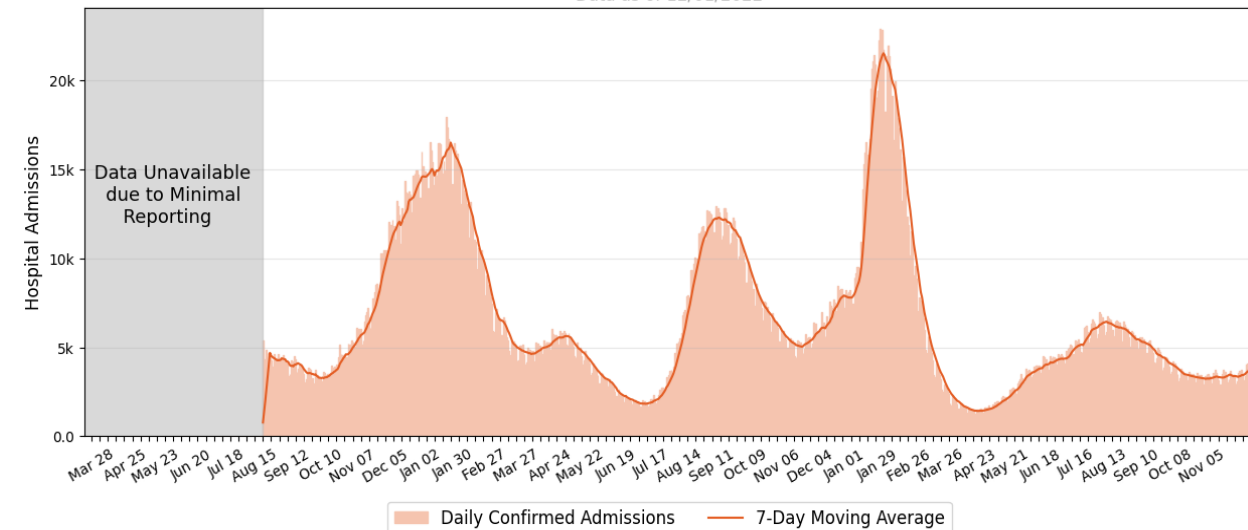
## New Deaths

Data as of 12/01/2022



## New Hospital Admissions

Data as of 12/01/2022



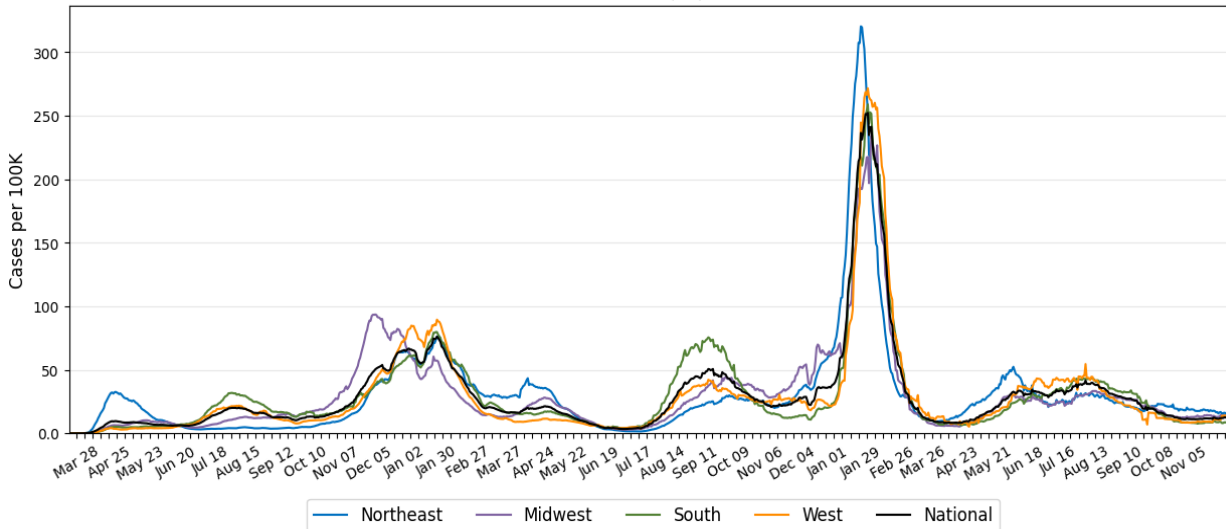
Source: CDC Aggregate County Dataset (cases and deaths). State values are the aggregate of constituent counties; these data are updated weekly. Unified Testing Dataset, Unified Hospital Dataset.

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# TIME SERIES BY CENSUS REGION

**New Cases per 100K (7-day average)**

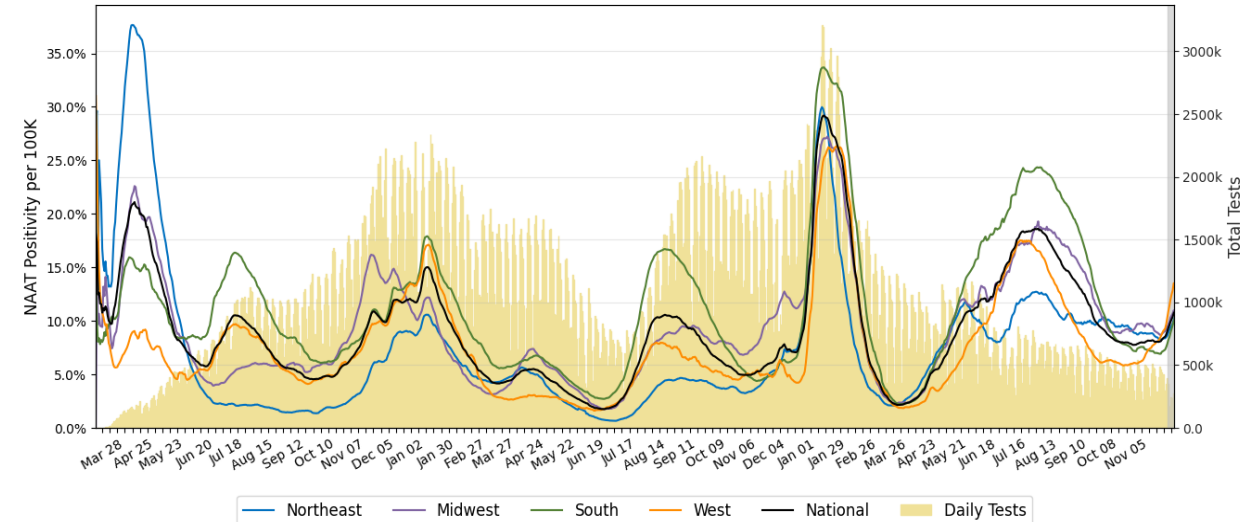
Data as of 12/01/2022



**NAAT Positivity per 100K (7-day average)**

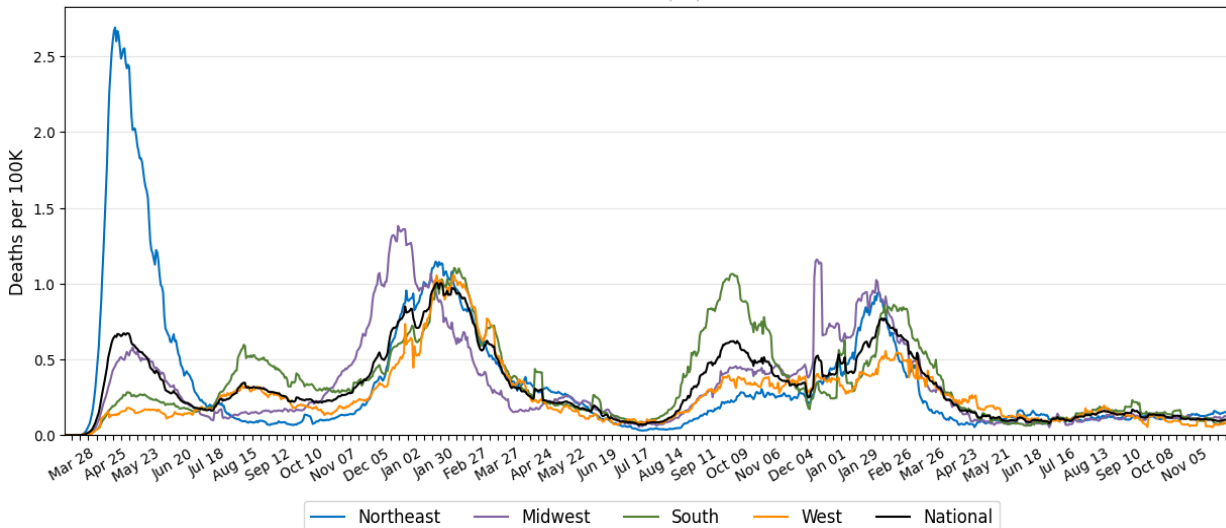
Data as of 12/01/2022

Incomplete Reporting



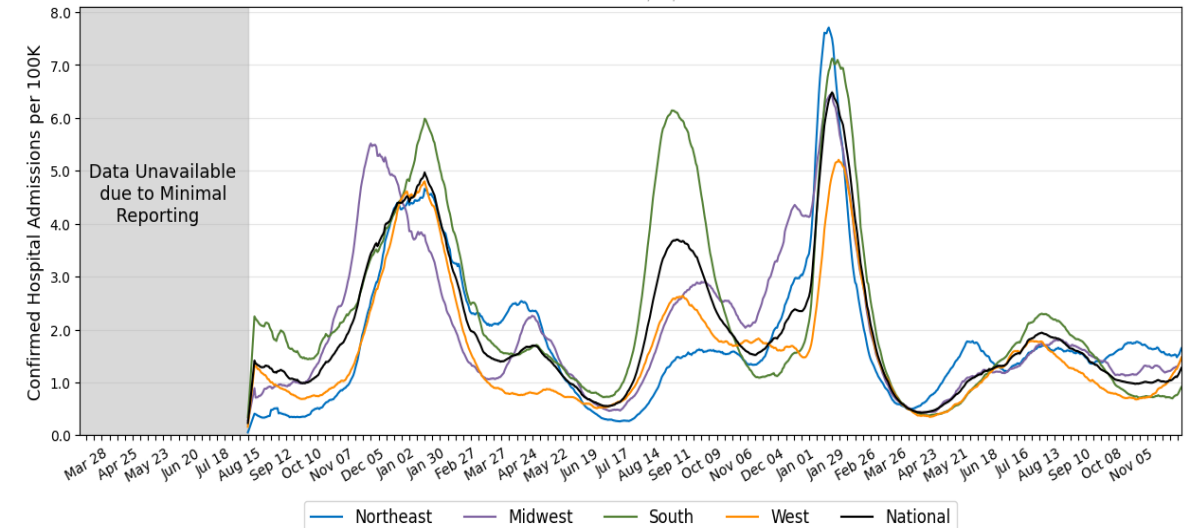
**New Deaths per 100K (7-day average)**

Data as of 12/01/2022



**New Confirmed Hospital Admissions per 100K (7-day average)**

Data as of 12/01/2022



**Source:** CDC Aggregate County Dataset (cases and deaths). State values are the aggregate of constituent counties; these data are updated weekly. Unified Testing Dataset, Unified Hospital Dataset. See <https://www.census.gov/geographies/reference-maps/2010/geo/2010-census-regions-and-divisions-of-the-united-states.html> for census regions.

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# NUMBER OF NEW CASES AND DEATHS IN THE LAST 7 DAYS

**Total Cumulative Cases: 98,777,220**

**New Cases in Last 7 Days: 303,101**

**Percent Change from Previous 7 Days: -1.2%**

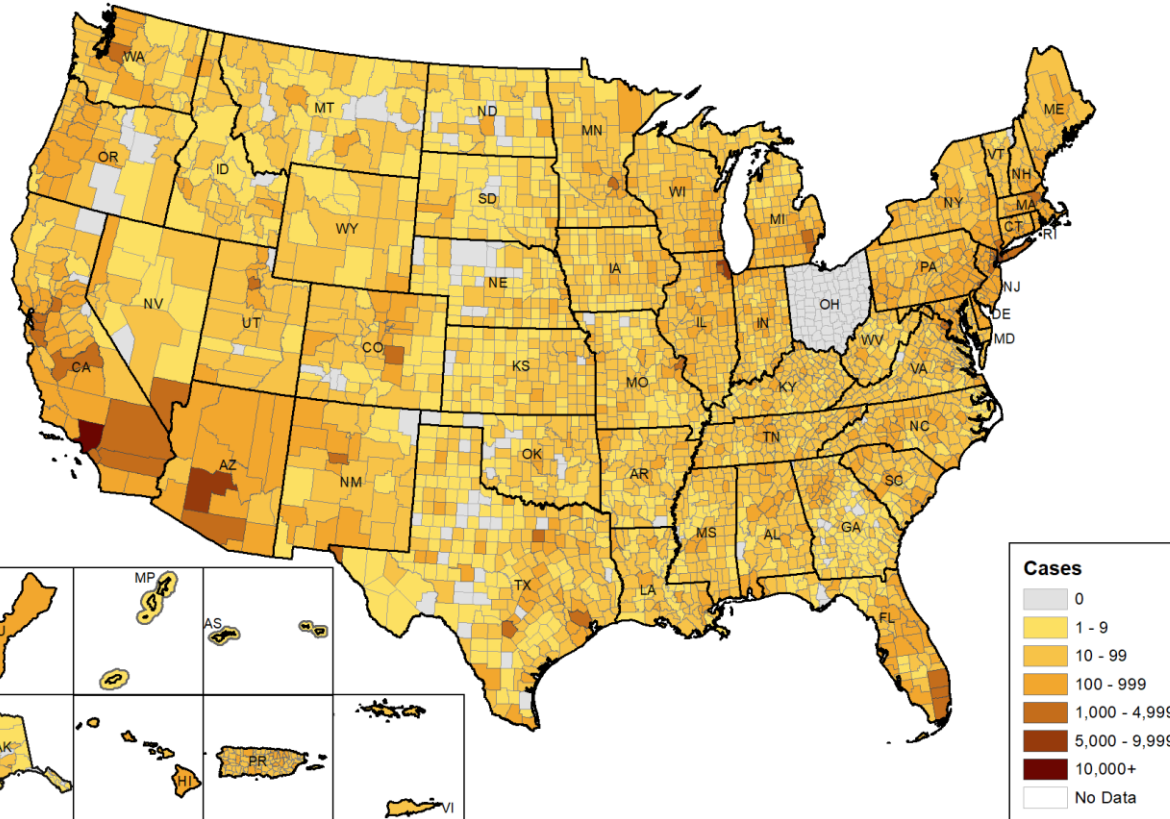
**Total Cumulative Deaths: 1,077,303**

**New Deaths in Last 7 Days: 1,780**

**Percent Change from Previous 7 Days: -32.4%**

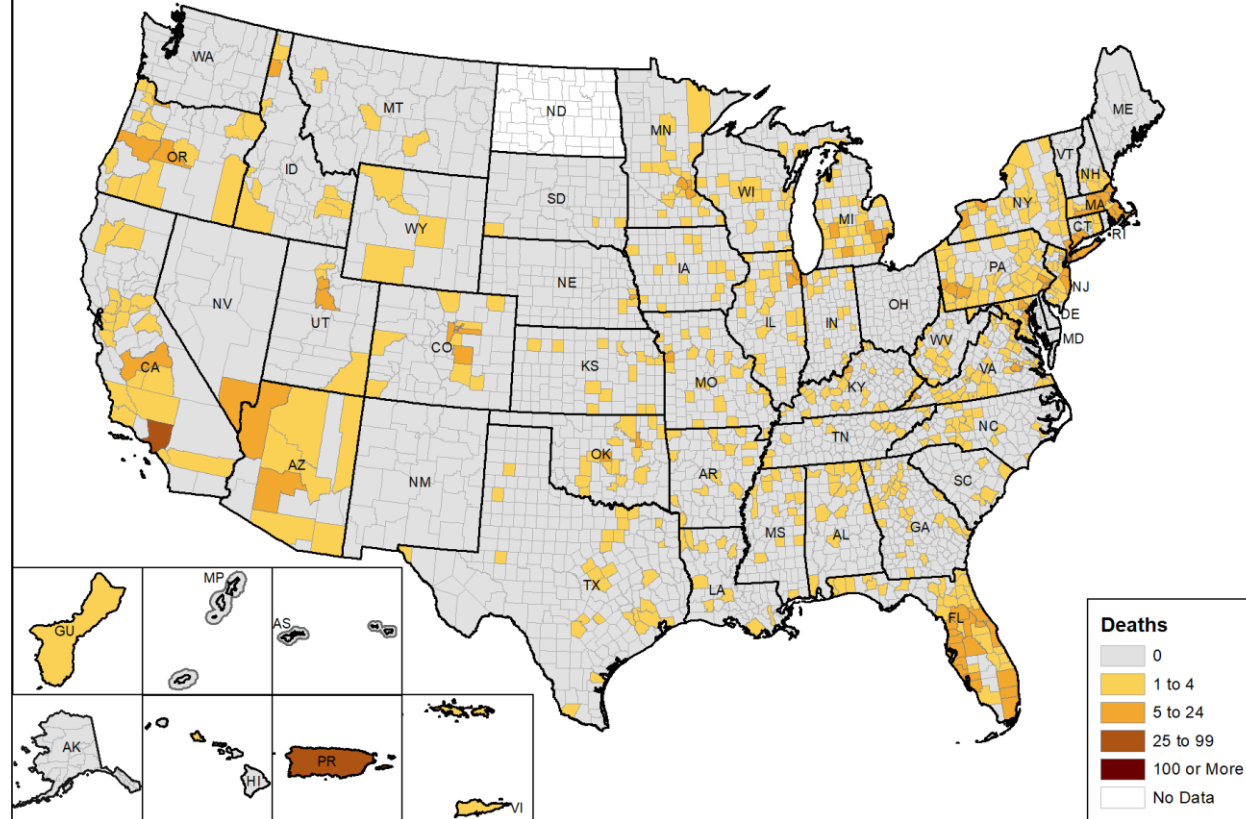
Date: 12/1/2022  
Source: CDC Aggregate  
County Data, CDC State-  
Reported Data (Territories)

## Cases by County in the Week 24NOV2022-30NOV2022



Date: 12/1/2022  
Source: CDC Aggregate  
County Data, CDC State-  
Reported Data (Territories)

## Deaths by County in the Week 24NOV2022-30NOV2022



As of 4/7/2022, ND is no longer reporting county-level deaths; therefore, county-level death counts from this date forward are no longer available.

Weekly totals and week-on-week changes in cases and deaths may be impacted by the Thanksgiving holiday.

Due to the Thanksgiving Holiday, Ohio shifted its reporting cadence and therefore does not have case or death data for the last week.

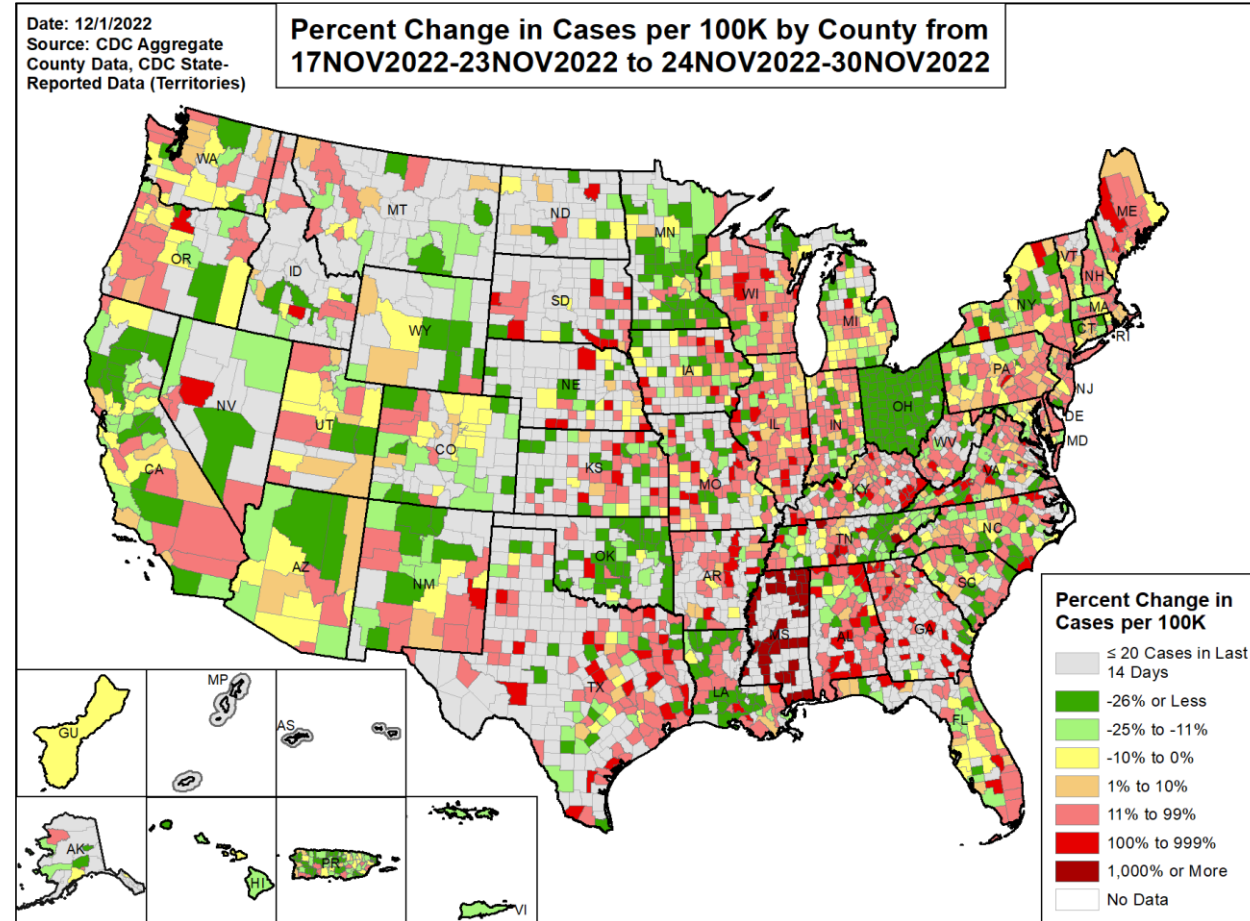
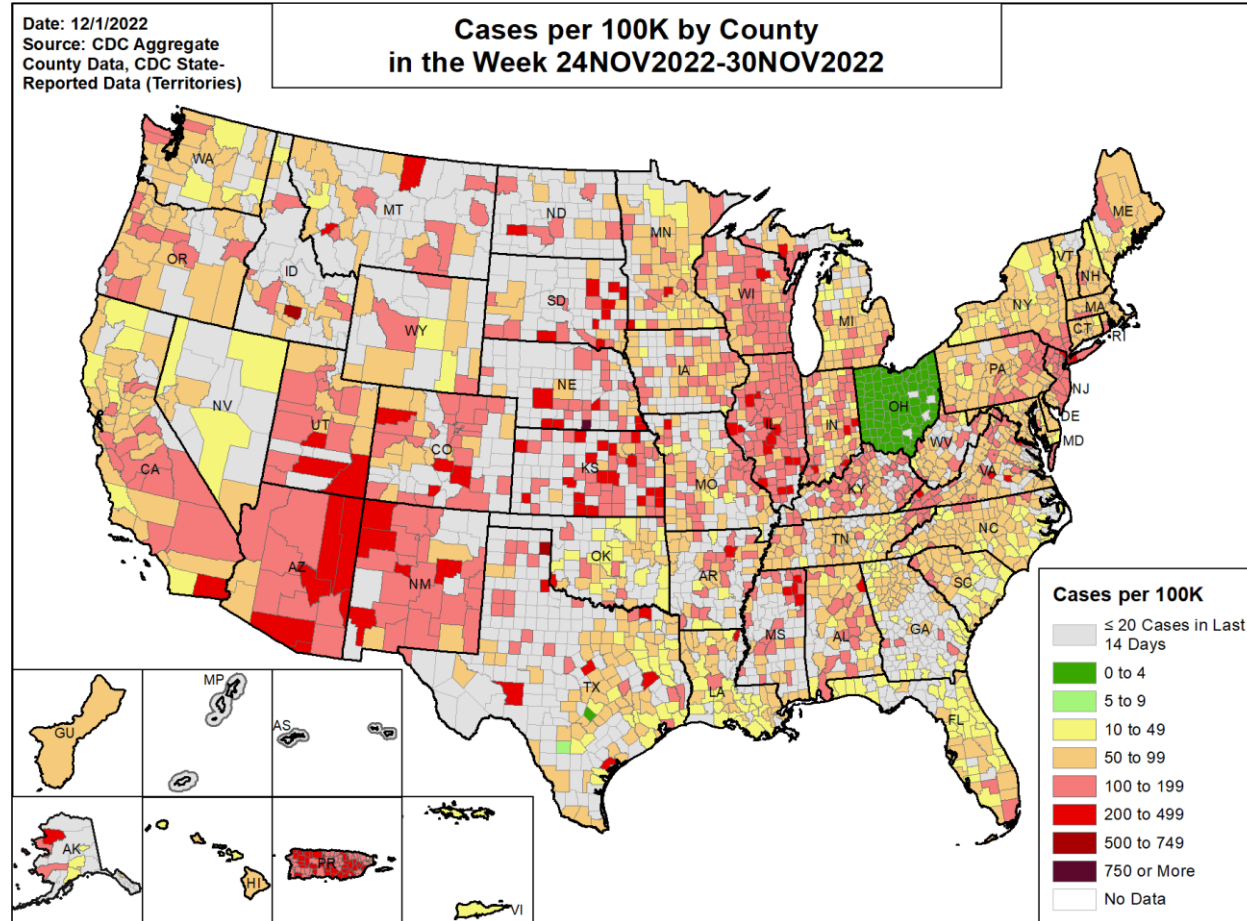
Due to the Thanksgiving holiday, Mississippi's reported cases and deaths in the last week may be an overestimate.

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# CASE INCIDENCE IN LAST 7 DAYS AND COMPARISON TO THE PREVIOUS 7 DAYS

Incidence Rate in the Last 7 Days: 91.3 per 100,000

Percent Change from Previous 7 Days: -1.2%

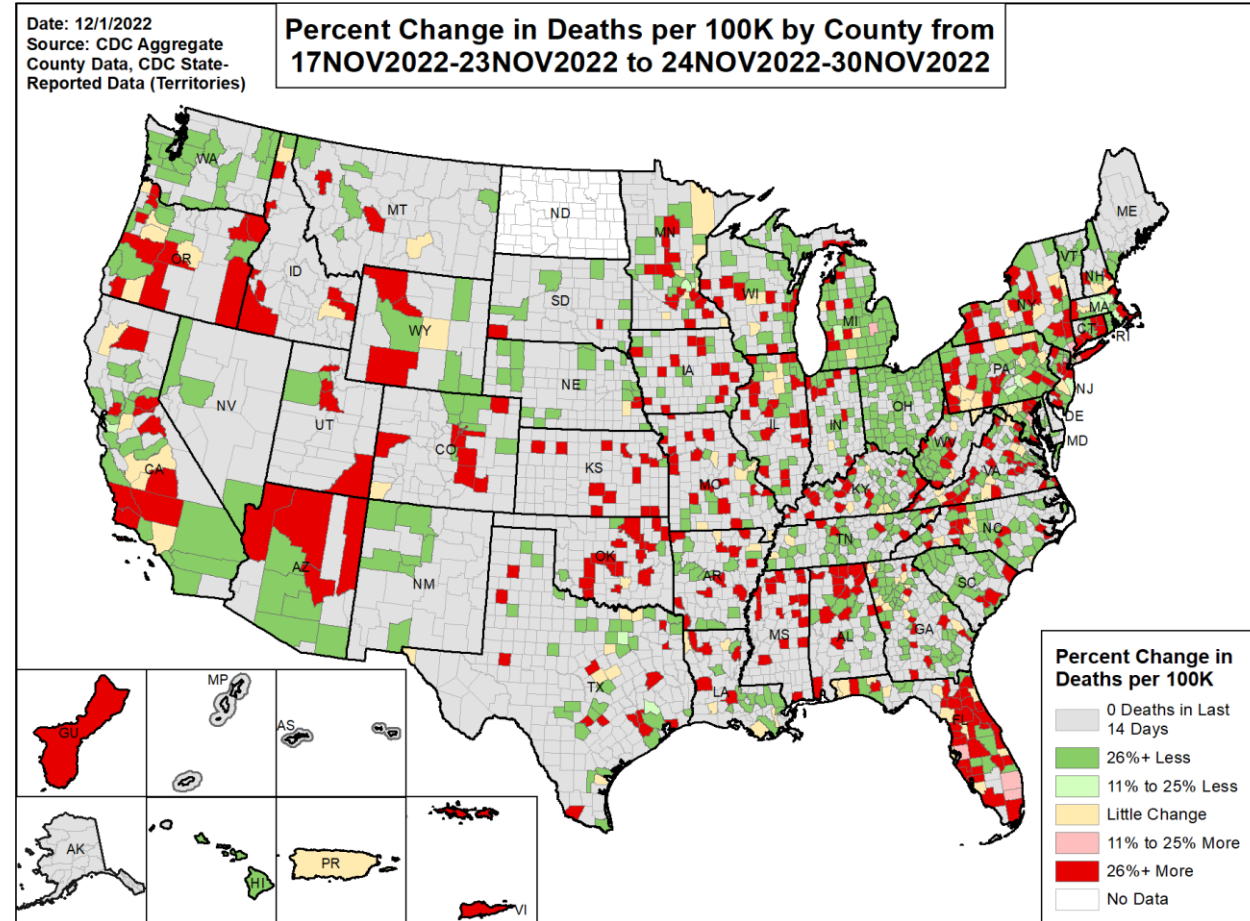
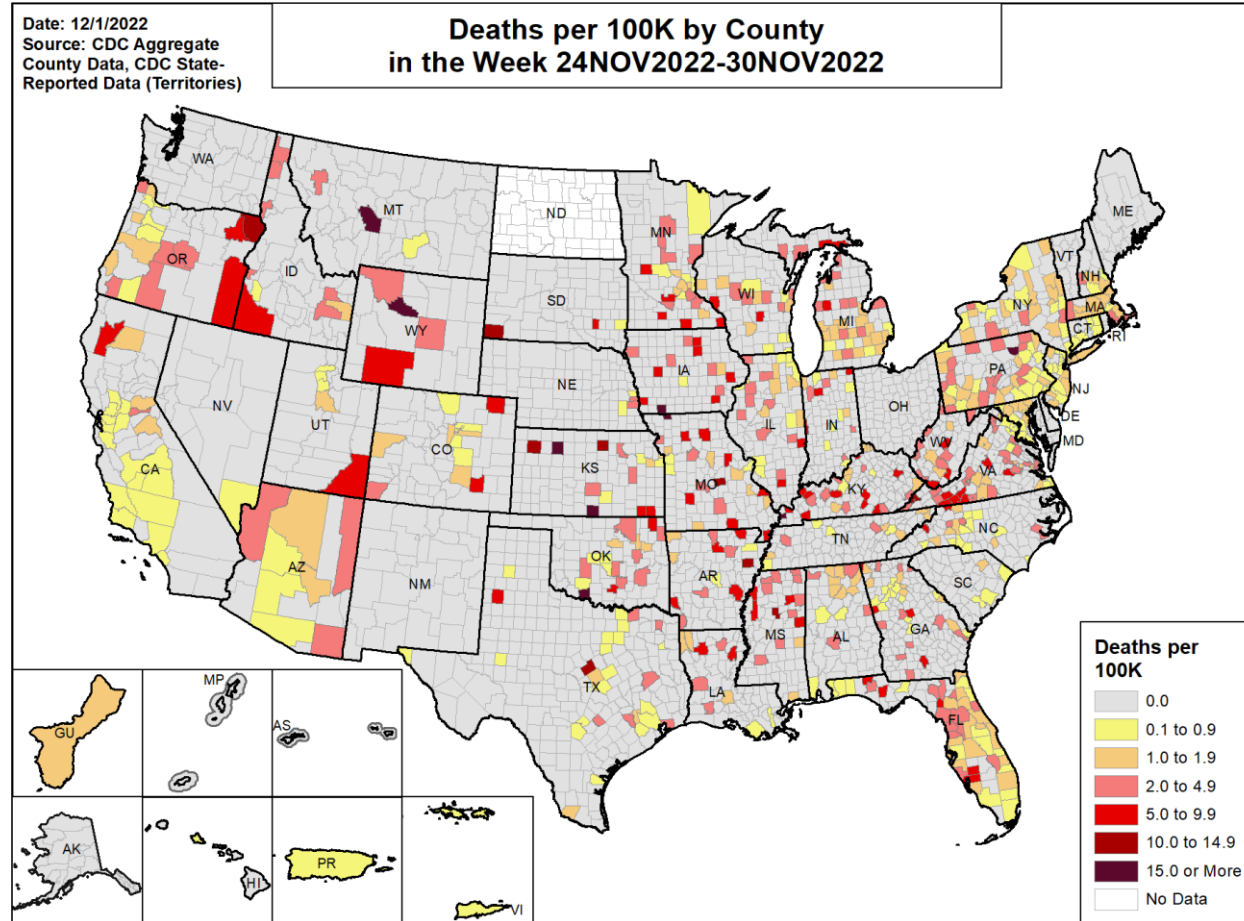


Weekly totals and week-on-week changes in cases and deaths may be impacted by the Thanksgiving holiday.  
Due to the Thanksgiving Holiday, Ohio shifted its reporting cadence and therefore does not have case or death data for the last week.  
Due to the Thanksgiving holiday, Mississippi's reported cases and deaths in the last week may be an overestimate.

# MORTALITY RATE IN THE LAST 7 DAYS AND COMPARISON TO THE PREVIOUS 7 DAYS

**Mortality Rate in the Last 7 Days: 0.5 deaths per 100,000**

**Percent Change from Previous 7 Days: -32.4%**



As of 4/7/2022, ND is no longer reporting county-level deaths; therefore, county-level death counts from this date forward are no longer available.

Weekly totals and week-on-week changes in cases and deaths may be impacted by the Thanksgiving holiday.

Due to the Thanksgiving Holiday, Ohio shifted its reporting cadence and therefore does not have case or death data for the last week.

Due to the Thanksgiving holiday, Mississippi's reported cases and deaths in the last week may be an overestimate.

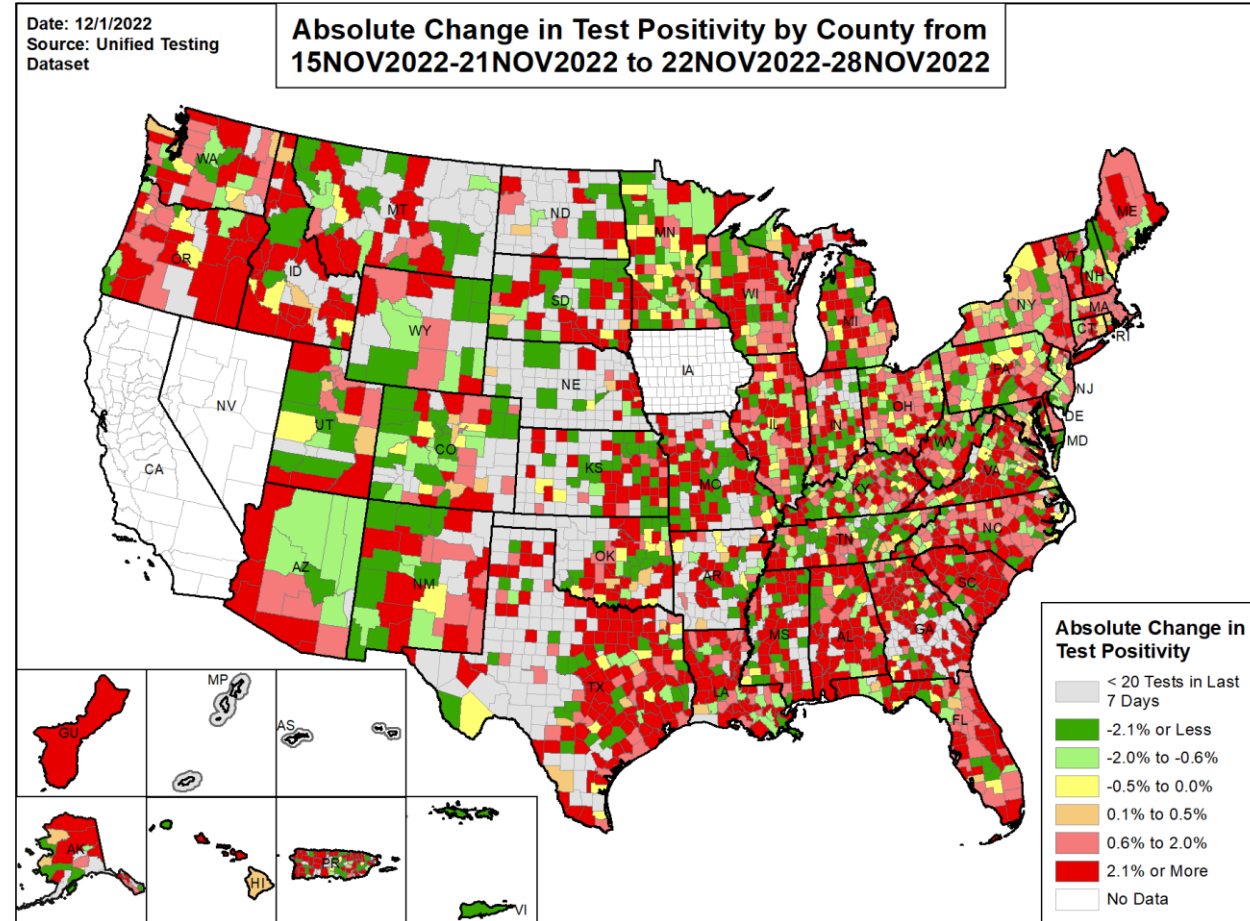
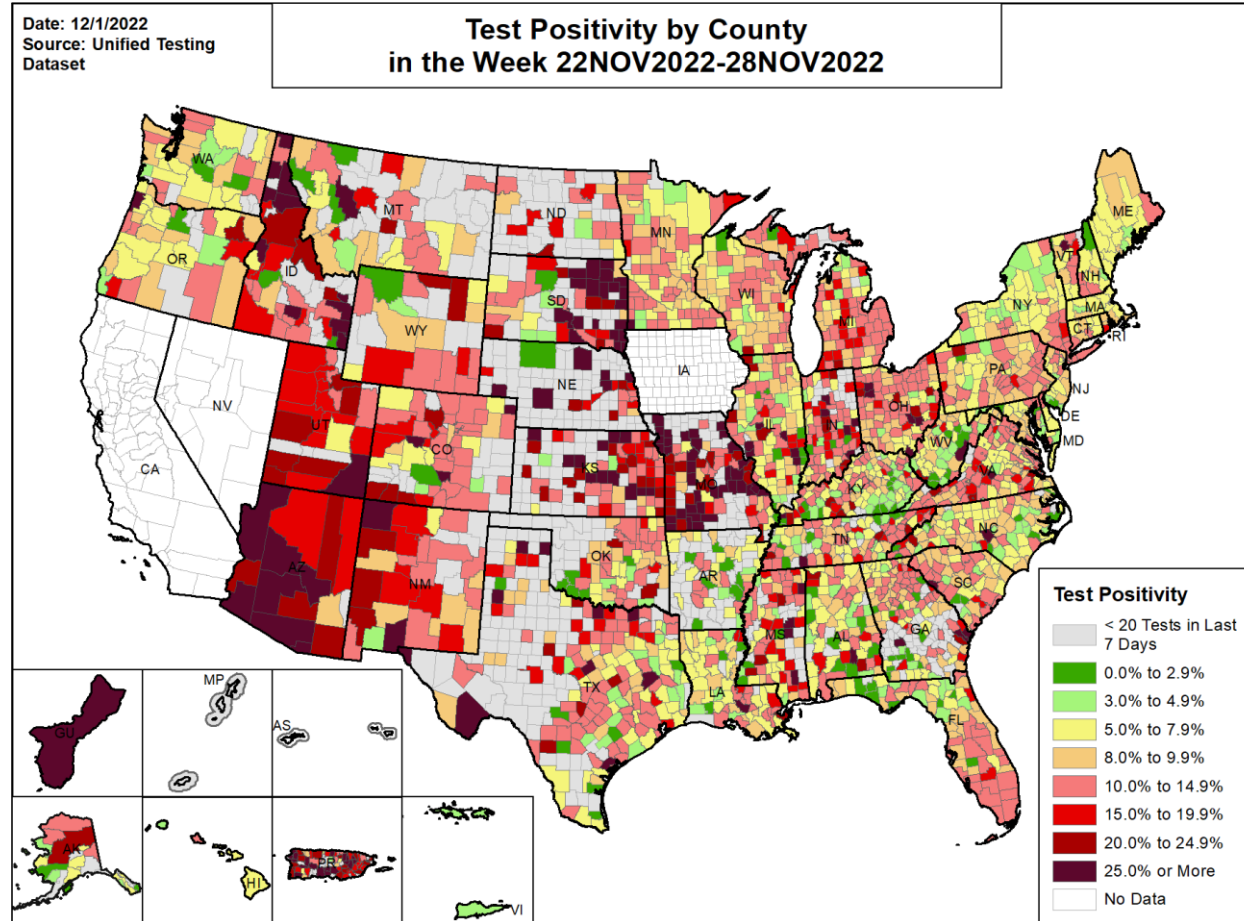
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# NAAT POSITIVITY IN THE LAST 7 DAYS AND COMPARISON TO PREVIOUS 7 DAYS

NAAT Positivity in Last 7 Days: 10.7%

Absolute Change from Previous 7 Days: +2.0%



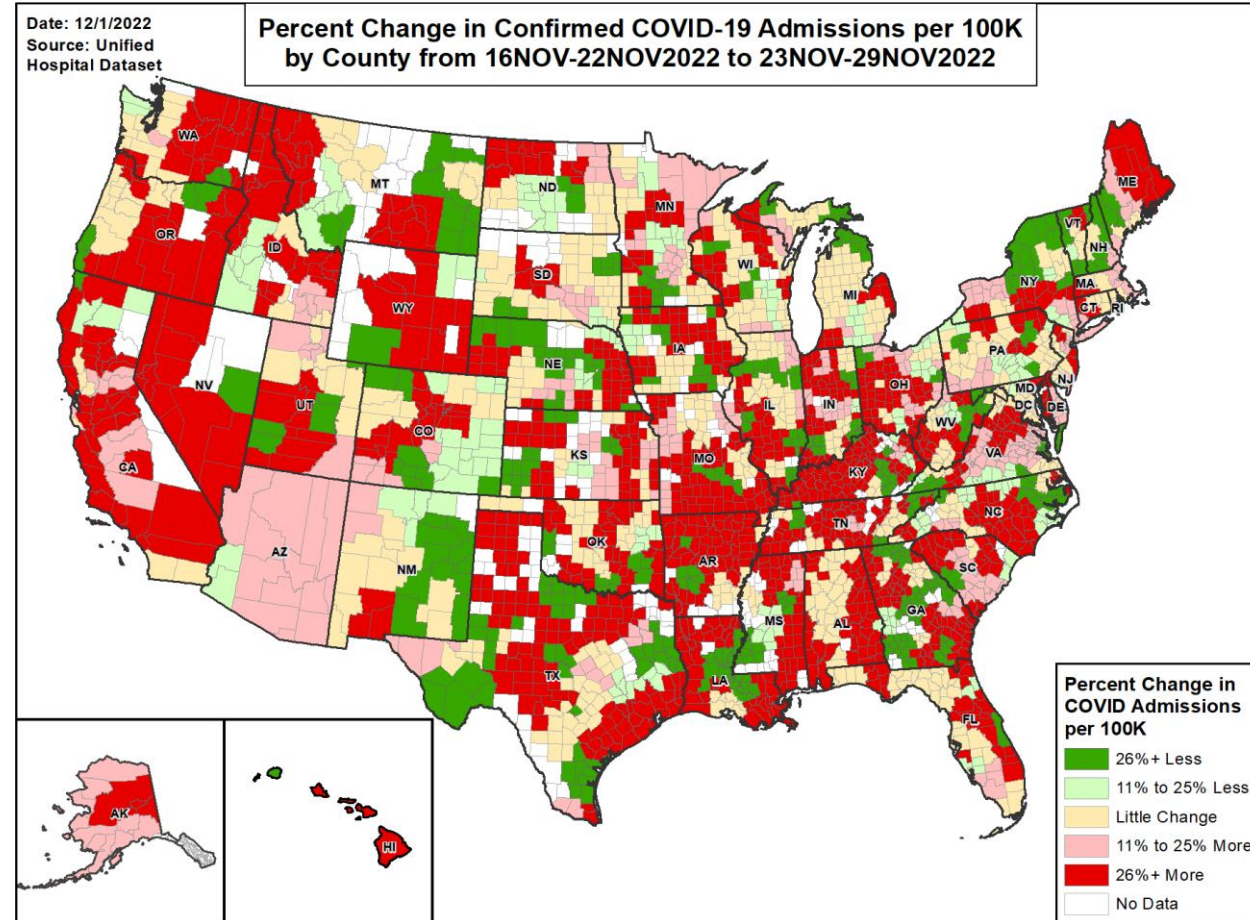
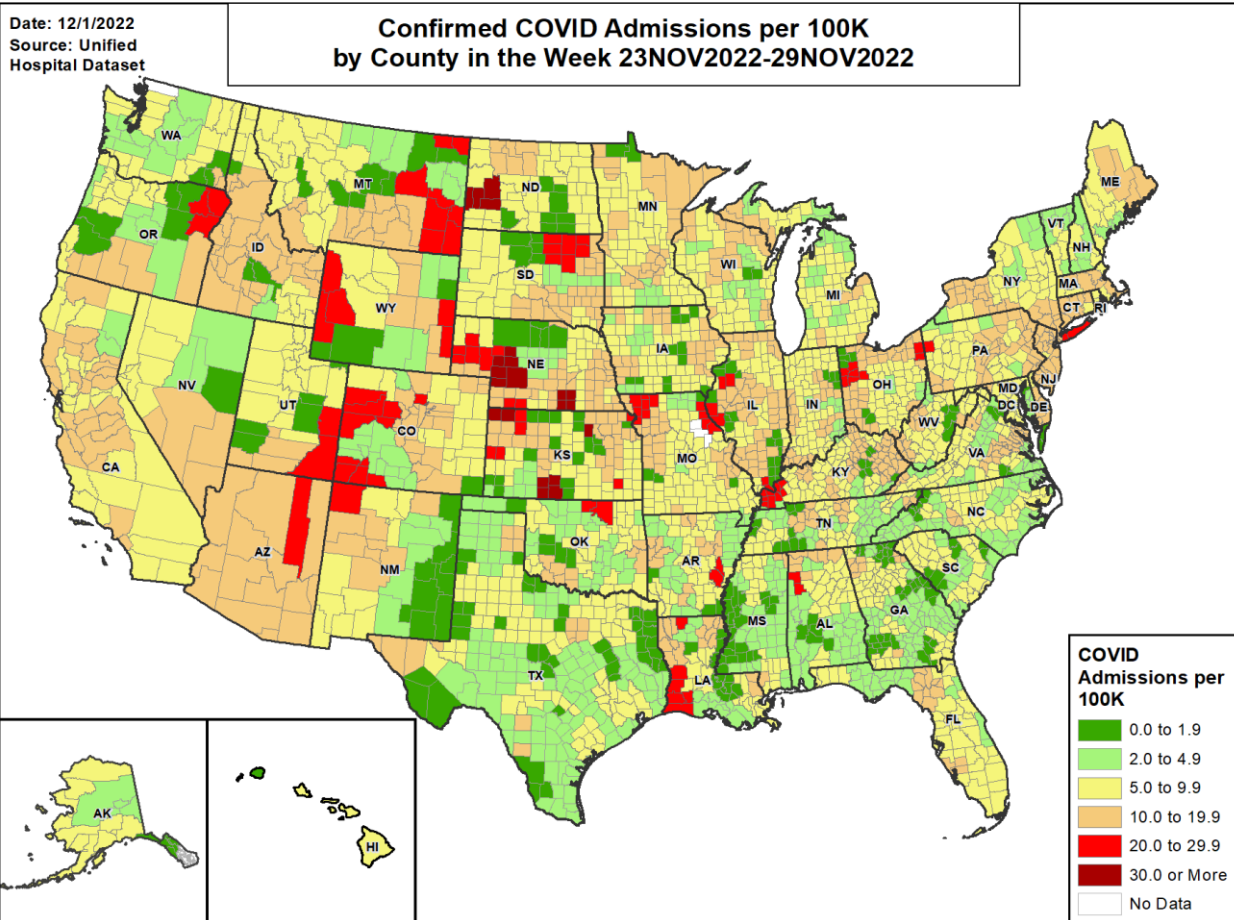
As of 2/17/2022, IA is no longer reporting negative test results; therefore, test volume and test positivity from this date forward is no longer presented.

CA and NV testing data have at least 6 days with no or minimal reporting in the last week (by the data cutoff time for this report), which may result in missing values and inaccurate test positivity.

# HOSPITAL ADMISSIONS IN THE LAST 7 DAYS AND COMPARISON TO THE PREVIOUS 7 DAYS

**Total Confirmed COVID-19 Hospital Admissions in Last 7 Days:**  
29,407

**Percent Change from Previous 7 Days: +17.6%**



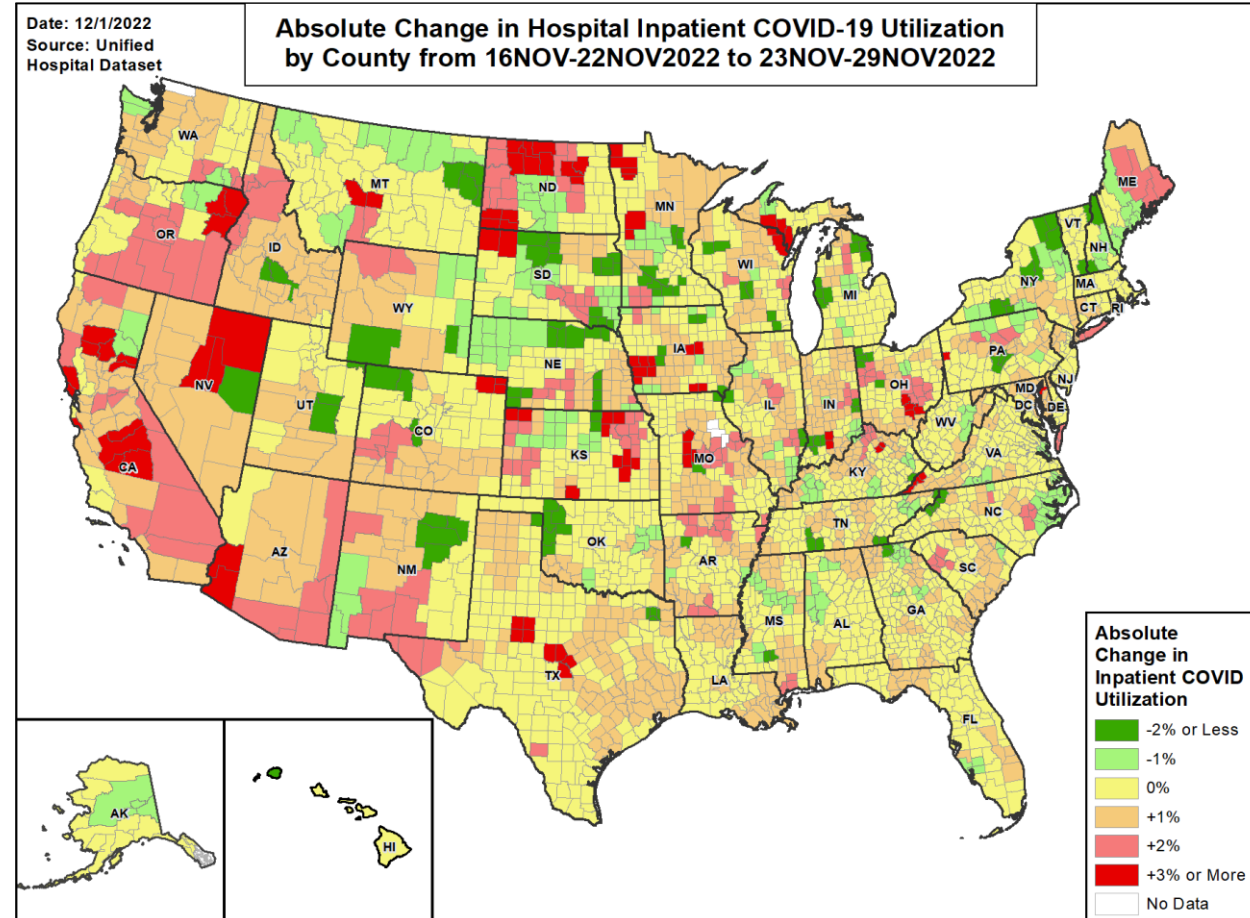
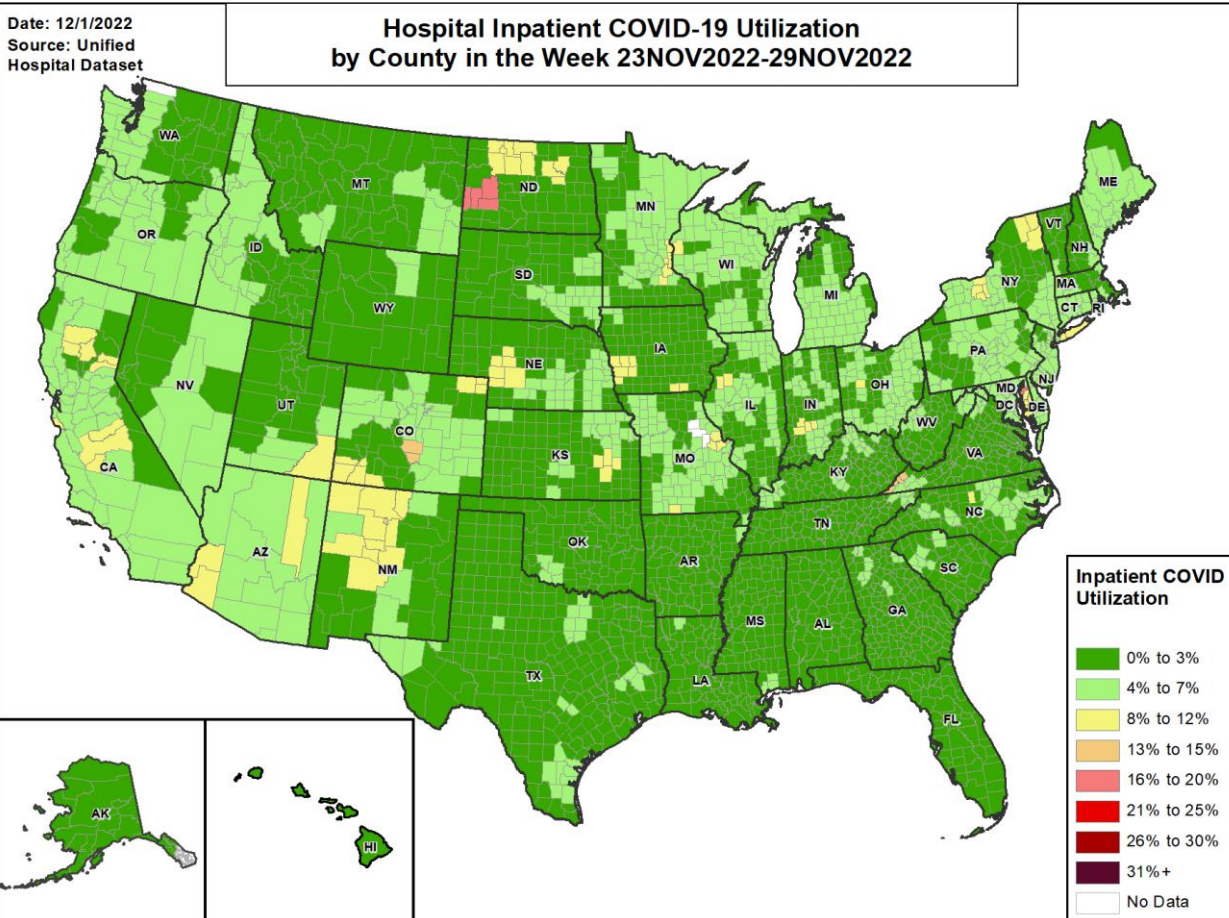
**Source:** Unified Hospital Dataset, excluding psychiatric, rehabilitation, and religious non-medical hospitals. Confirmed COVID-19 admissions are all confirmed daily admissions reported within the last 7 days. County data is mapped from Health Service Areas, defined as a single county or cluster of counties that are generally self contained with respect to hospital care.



# HOSPITAL INPATIENT COVID-19 UTILIZATION IN THE LAST 7 DAYS AND COMPARISON TO THE PREVIOUS 7 DAYS

**Average Daily COVID-19 Hospital Inpatients over Last 7 Days:**  
25,211

**Percent Change from Previous 7 Days: +14.1%**



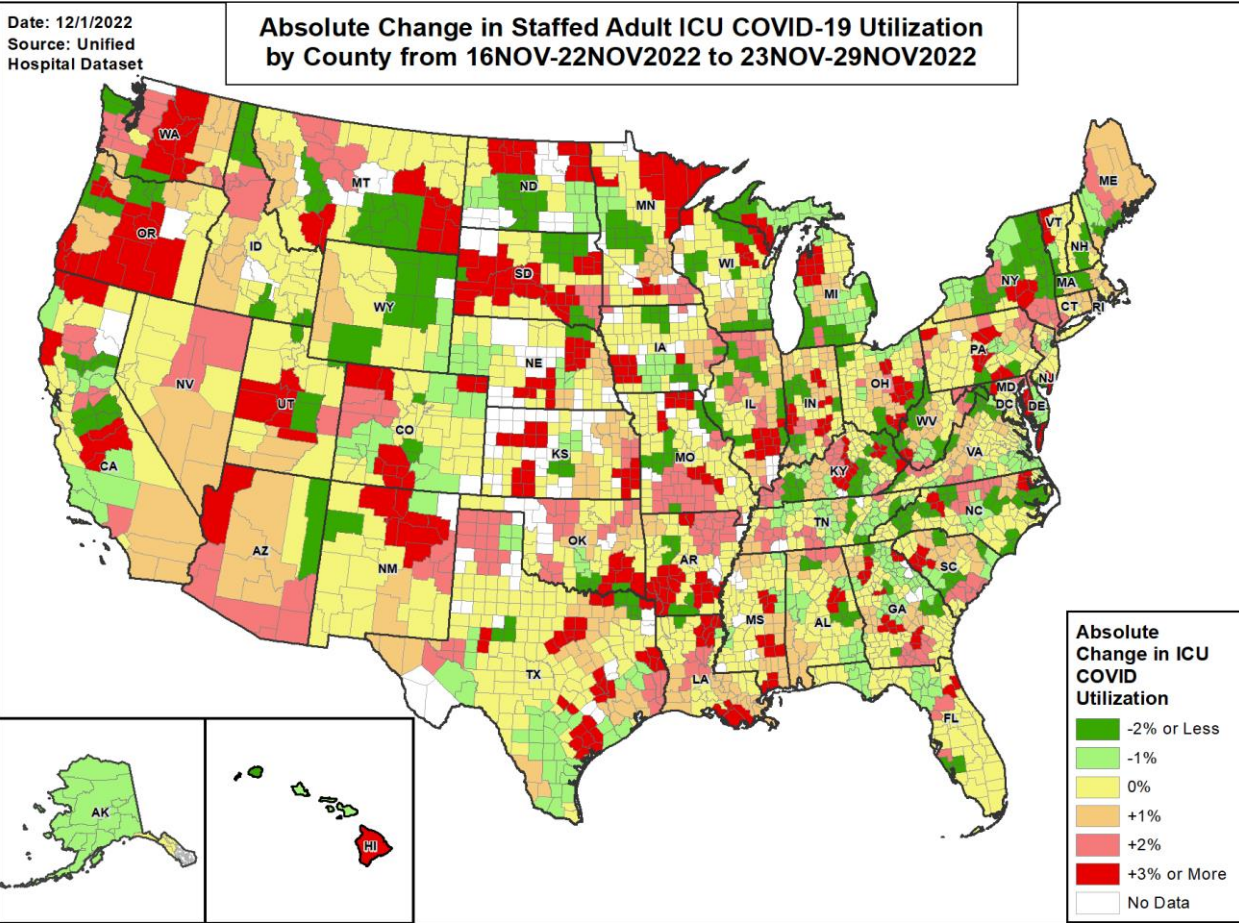
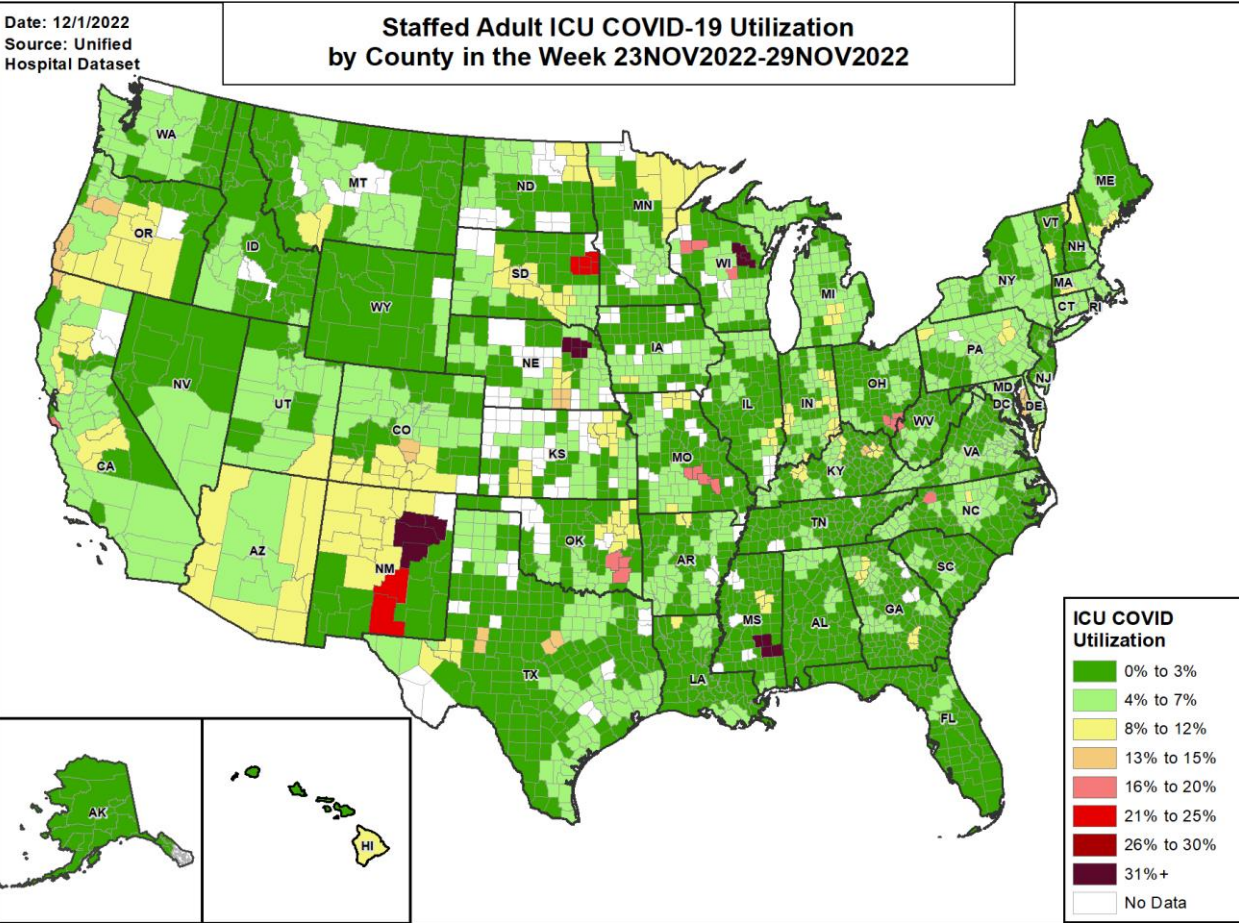
**Source:** Unified Hospital Dataset, excluding psychiatric, rehabilitation, and religious non-medical hospitals. COVID-19 inpatient utilization indicates average percentage of staffed inpatient beds occupied by confirmed COVID-19 patients within the given time period. County data is mapped from Health Service Areas, defined as a single county or cluster of counties that are generally self contained with respect to hospital care. See Data Sources/Methods slides for additional details.



STAFFED ADULT ICU COVID-19 UTILIZATION IN THE LAST 7 DAYS AND COMPARISON TO THE PREVIOUS 7 DAYS

Average Daily Adult ICU COVID-19 Patients over Last 7 Days:  
3,056

Percent Change from Previous 7 Days: +8.6%



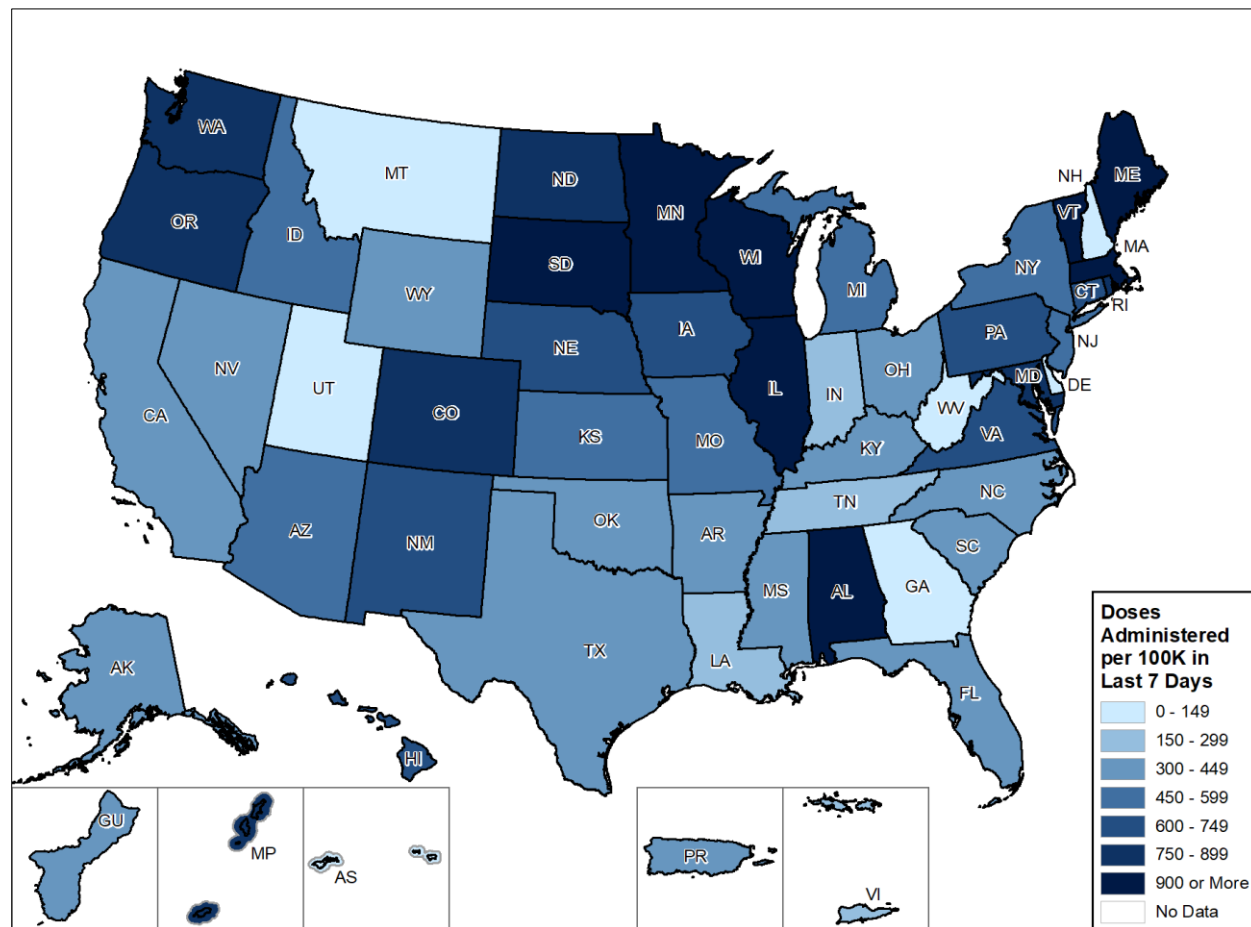
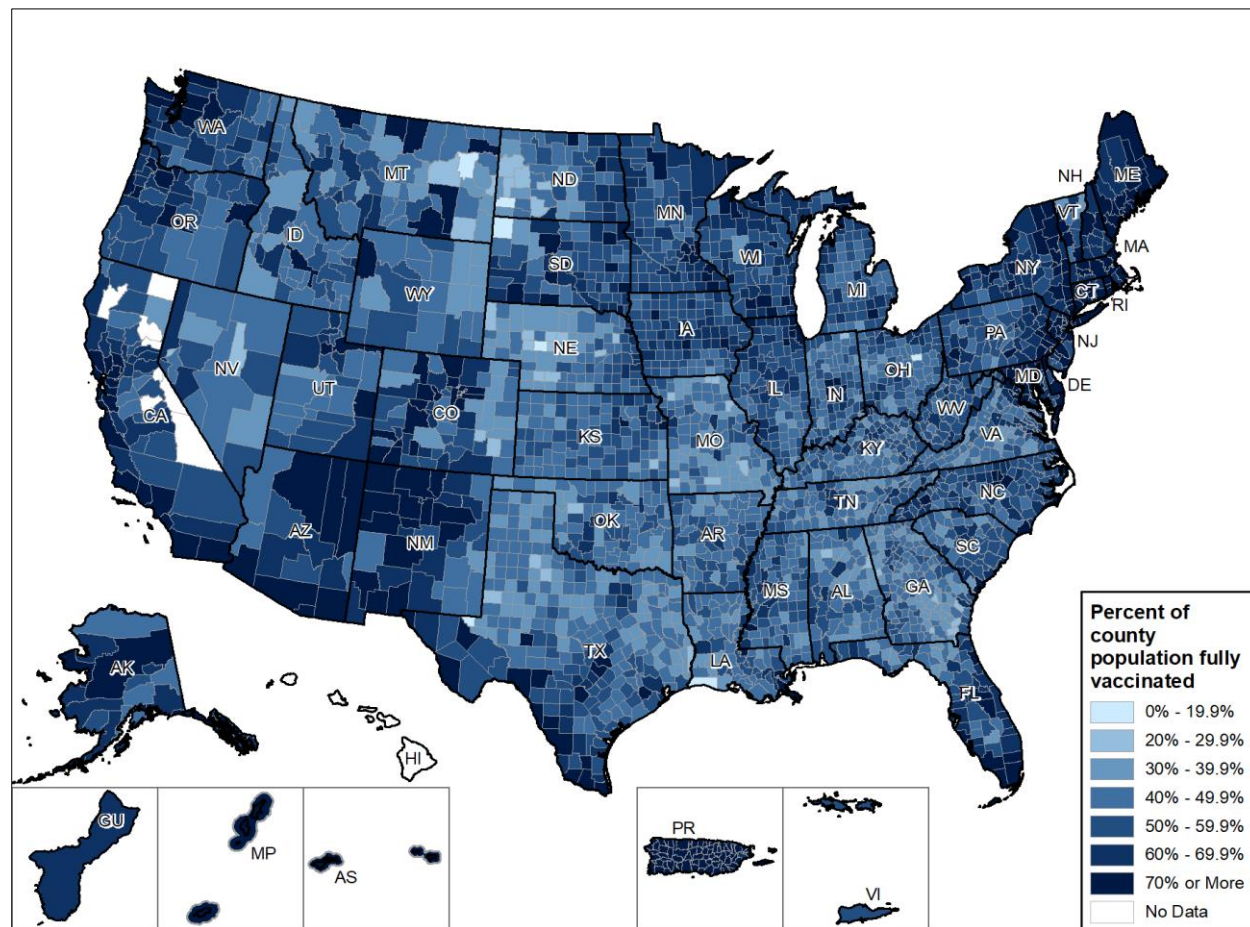
Source: Unified Hospital Dataset, excluding psychiatric, rehabilitation, and religious non-medical hospitals. Staffed adult ICU COVID-19 utilization indicates average percentage of staffed adult ICU beds occupied by confirmed COVID-19 patients within the given time period. County data is mapped from Health Service Areas, defined as a single county or cluster of counties that are generally self contained with respect to hospital care. See Data Sources/Methods slides for additional details.



# VACCINATION RATES BY COUNTY AND DOSES ADMINISTERED

**Percent of Population Fully Vaccinated: 68.8%**  
**Percent of Population with at Least 1 Dose: 80.5%**

**Doses Administered Per 100,000 in the Last Week: 535**

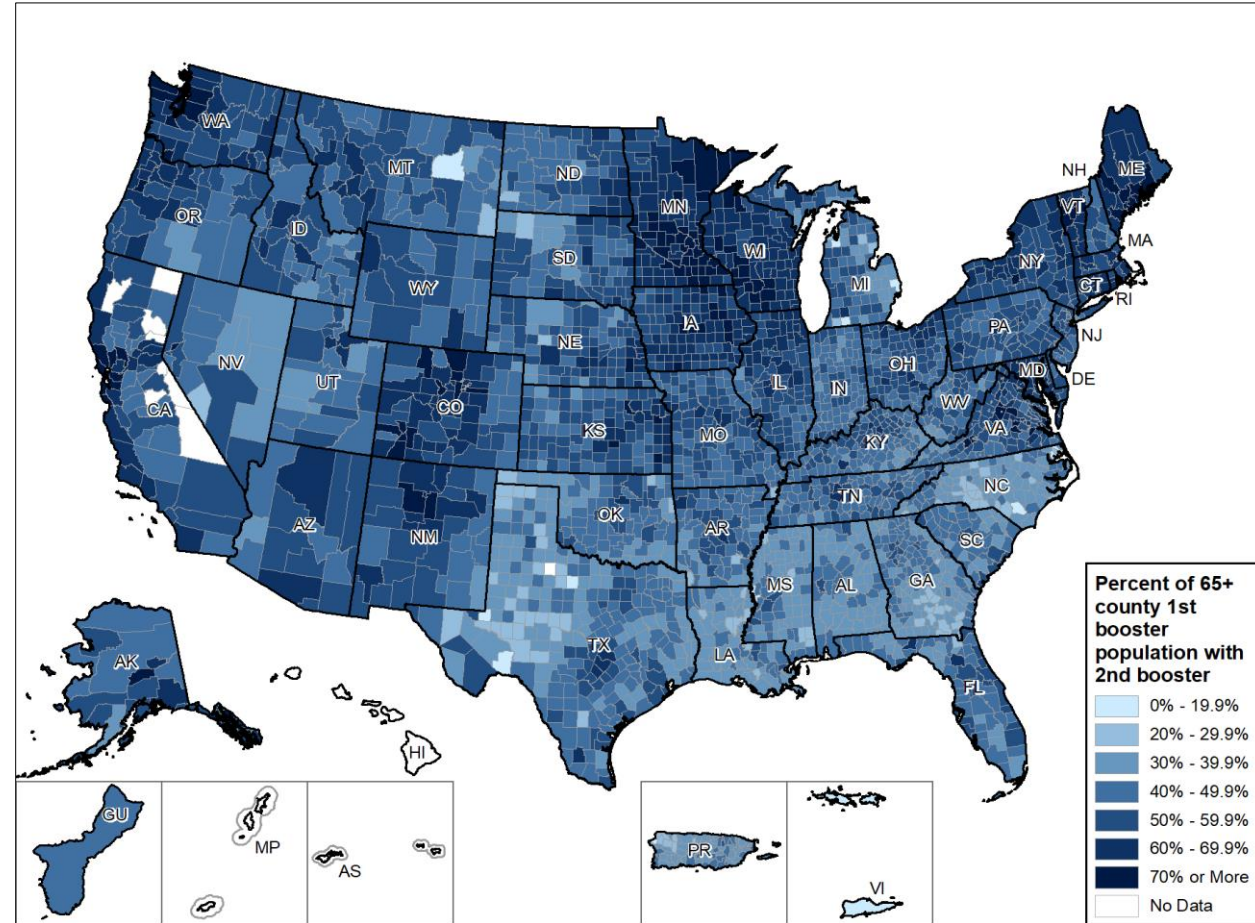
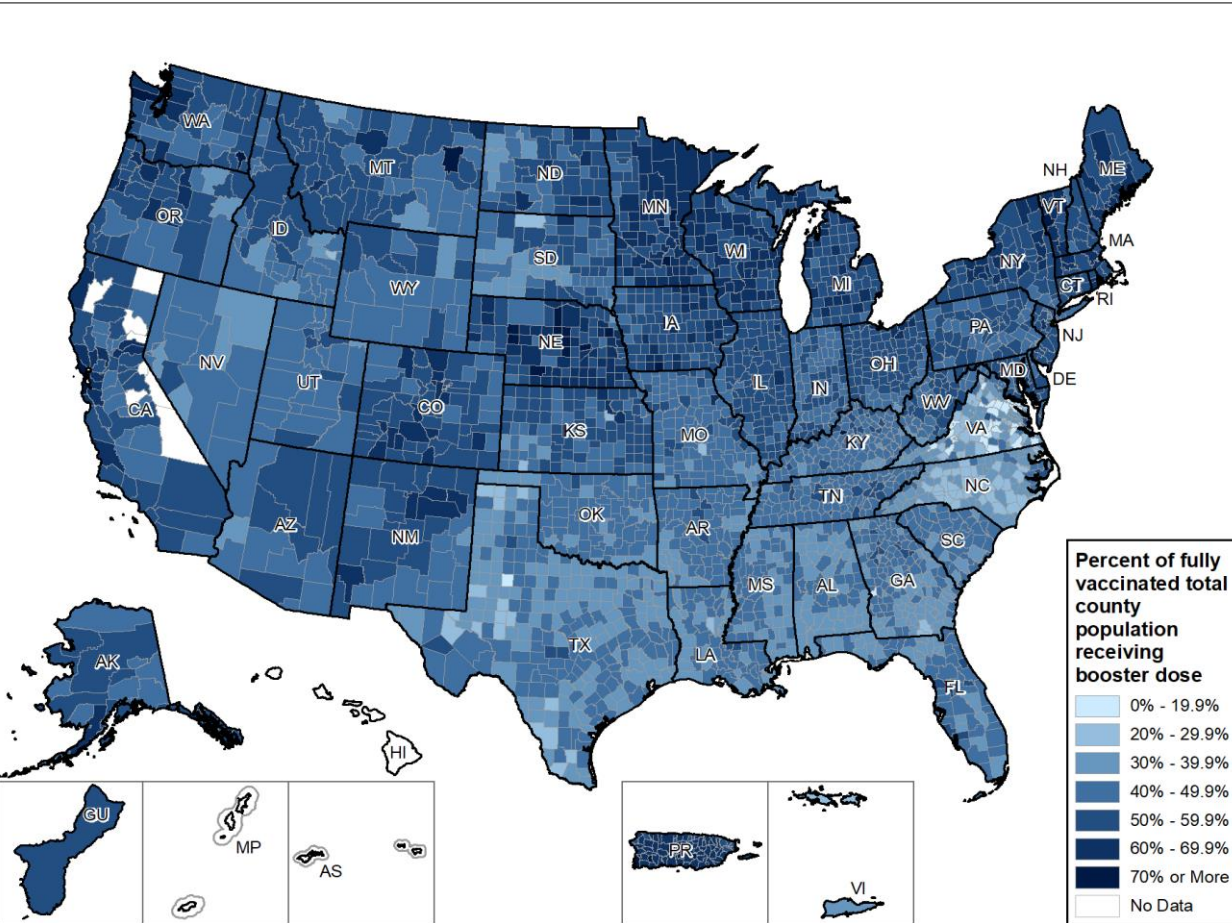


**Source:** Unified COVID-19 Vaccine Dataset. Data include the Moderna, Pfizer-BioNTech, and J&J/Janssen COVID 19 vaccines and reflects current data available as of 11/30/2022. Fully vaccinated indicates those who received the second dose of Pfizer-BioNTech or Moderna vaccines and those who received one dose of J&J/Janssen COVID-19 vaccine. Initiating vaccination indicates those who have received the first dose of the Pfizer-BioNTech or Moderna vaccines and those who have received a dose of the J&J/Janssen vaccine in the last week. Values reflect total by report date, not administered date. In instances where the number of people fully vaccinated is greater than those with at least one dose for a specific county, the county will have "no data" on the map of population initiating vaccination; see COVID Data Tracker for further information. The following states have  $\leq 80\%$  completeness reporting vaccinations by county, which may result in underestimates of vaccination data for counties and CBSAs: VA (78%), GU (76%), VT (74%), HI (0%)

# VACCINATION BOOSTER RATES BY COUNTY

Percent of Fully Vaccinated Population with a Booster: 50.3%

Percent of 1st Booster 65+ Years Old Population with 2nd Booster: 55.4%



**Source:** Unified COVID-19 Vaccine Dataset. Data include the Moderna, Pfizer-BioNTech, and J&J/Janssen COVID 19 vaccines and reflects current data available as of 11/30/2022. Fully vaccinated indicates those who received the second dose of Pfizer-BioNTech or Moderna vaccines and those who received one dose of J&J/Janssen COVID-19 vaccine. Initiating vaccination indicates those who have received the first dose of the Pfizer-BioNTech or Moderna vaccines and those who have received a dose of the J&J/Janssen vaccine in the last week. Values reflect total by report date, not administered date. In instances where the number of people fully vaccinated is greater than those with at least one dose for a specific county, the county will have "no data" on the map of population initiating vaccination; see COVID Data Tracker for further information. The following states have ≤80% completeness reporting vaccinations by county, which may result in underestimates of vaccination data for counties and CBSAs: VA (78%), GU (76%), VT (74%), HI (0%).

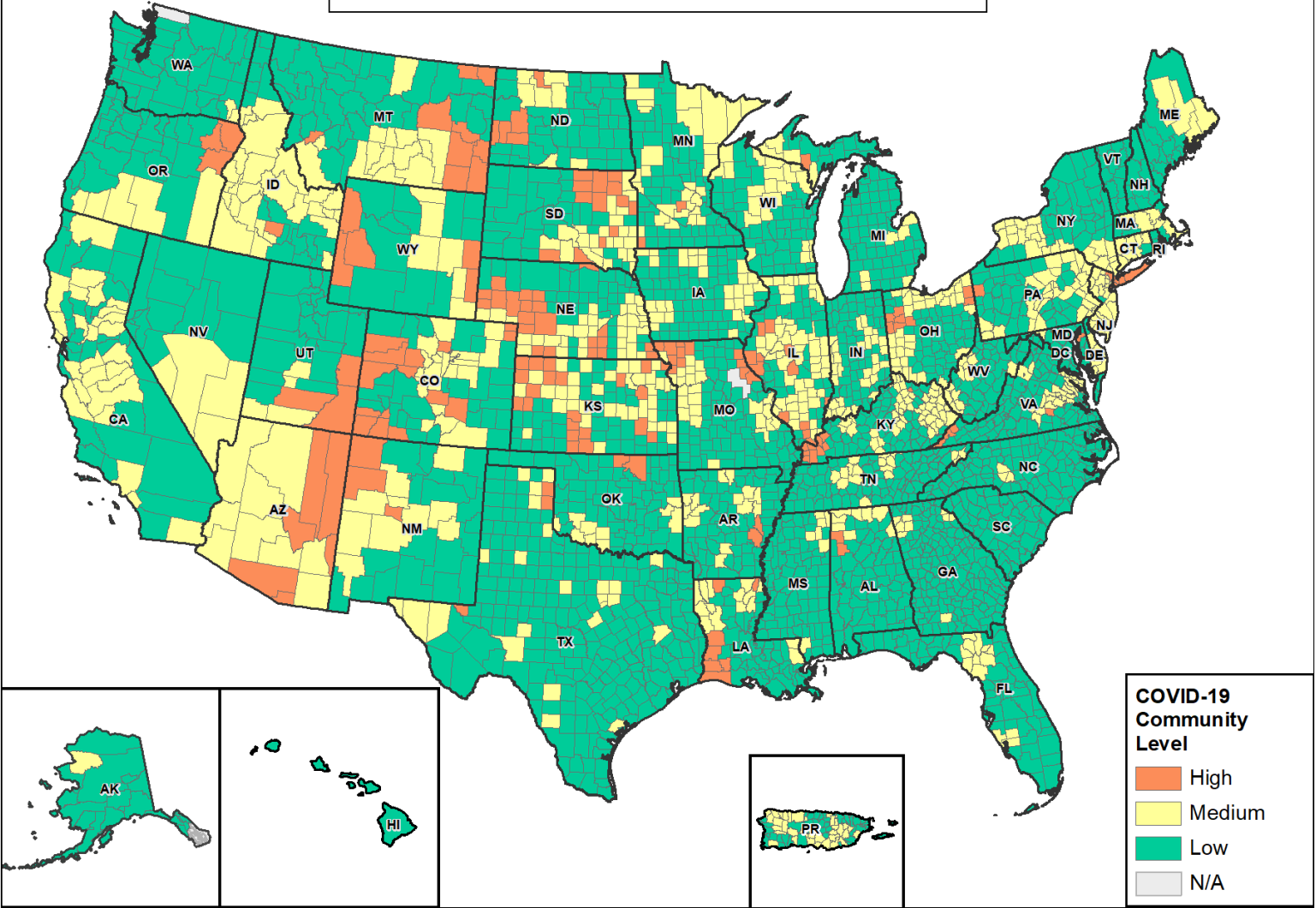
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# COVID-19 COMMUNITY LEVEL

Date: 12/1/2022  
Source: CDC Aggregate County  
Data and Unified Hospital Dataset

## COVID-19 Community Level by County 12/01/2022



Source: CDC Aggregate County Dataset (cases), Unified Hospital Dataset (admissions)

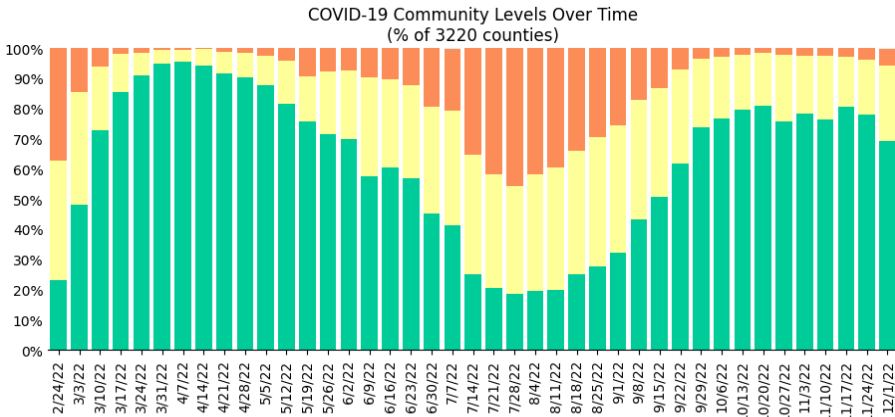
Notes: Cases data from November 24-30, 2022, hospital data from November 23-29, 2022. COVID-19 Community Level is determined by the higher of the new admissions and inpatient bed metrics, based on the current level of new cases per 100,000 population in the past 7 days. Admissions per 100k refers to the 7-day total of confirmed COVID-19 hospital admissions. COVID Inpatient Occupancy refers to the percent of staffed inpatient beds occupied by a COVID-19 patient (7-day average). A county is N/A if hospital data is not available. County data is mapped from Health Service Areas, defined as a single county or cluster of counties that are generally self-contained with respect to hospital care. Previous week levels are computed based on current data. See Data Sources/Methods slides for additional details.

### Counties by COVID-19 Community Level Component Metrics

< 200 Cases per 100k			
Admissions per 100k	< 10.0	10.0 - 19.9	20.0 +
# of counties (change)	2,233 (↓280)	699 (↑250)	96 (↑43)
% of counties (change)	69.3% (↓8.7%)	21.7% (↑7.8%)	3.0% (↑1.3%)
COVID Inpatient Occupancy	<10.0%	10.0% to 14.9%	15.0% +
# of counties (change)	3,016 (↑14)	5 (↓7)	7 (↑6)
% of counties (change)	93.7% (↑0.4%)	0.2% (↓0.2%)	0.2% (↑0.2%)
200 + Cases per 100k			
Admissions per 100k	< 10.0	10.0 +	
# of counties (change)	102 (↓36)	82 (↑18)	
% of counties (change)	3.2% (↓1.1%)	2.5% (↑0.6%)	
COVID Inpatient Occupancy	< 10.0%	10.0% +	
# of counties (change)	180 (↓19)	4 (↑1)	
% of counties (change)	5.6% (↓0.6%)	0.1% (↑0.0%)	

### Counties by COVID-19 Community Level

Category	Low	Medium	High
# of counties (change)	2,231 (↓277)	799 (↑209)	182 (↑63)
% of counties (change)	69.3% (↓8.6%)	24.8% (↑6.5%)	5.7% (↑2.0%)
% of population (change)	61.1% (↓14.2%)	34.0% (↑12.2%)	4.8% (↑1.9%)

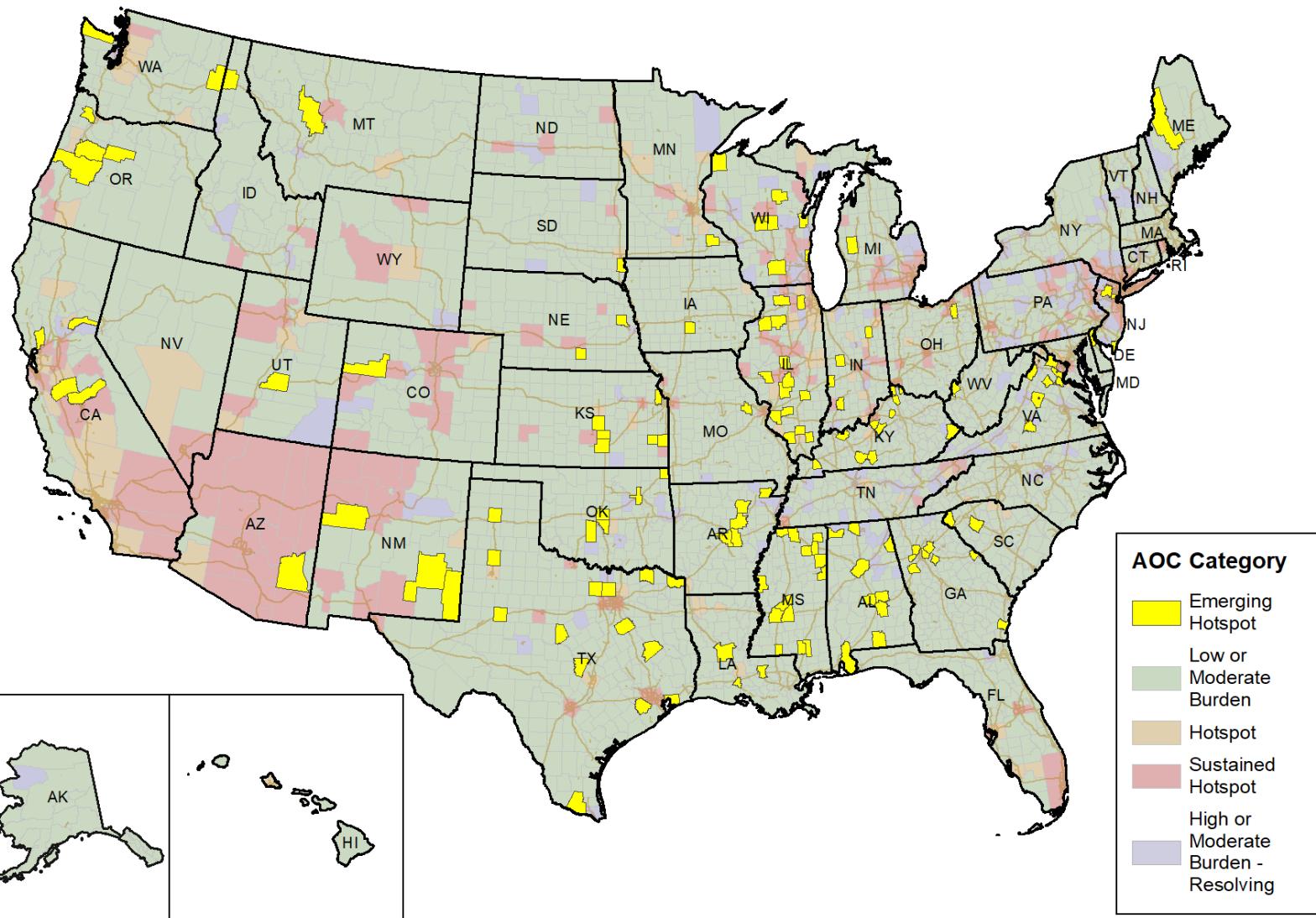




# AREA OF CONCERN CONTINUUM

Date: 12/1/2022

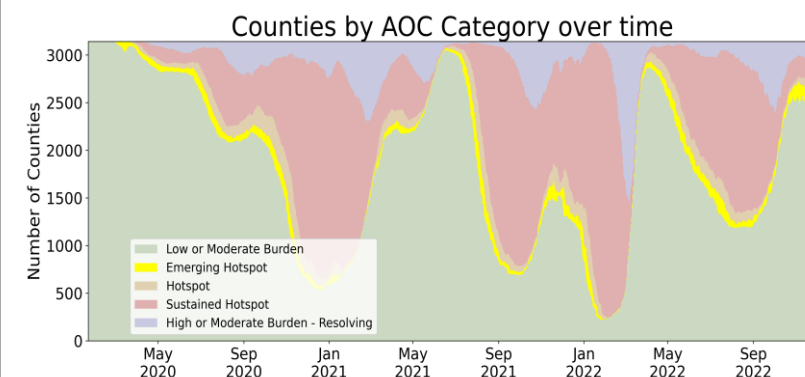
## Area of Concern Continuum by County 30NOV2022



The Areas of Concern Continuum (AOCC) is used to describe communities as they progress through stages of the epidemic. There are 7 possible AOC classifications based on current and recent history of case and testing data for the location:

- (1) **Low Burden** – communities with minimal activity
- (2) **Moderate Burden** – communities with moderate disease activity
- (3) **Emerging Hotspot** – communities with a high likelihood to become hotspots in the next 1-7 days
- (4) **Hotspot** – communities that have reached a threshold of disease activity considered as being of high burden
- (5) **Sustained Hotspot** – communities that have had a high sustained case burden and may be higher risk for experiencing healthcare resource limitations
- (6) **High Burden – Resolving** – communities that were recently identified as hotspots and are now improving
- (7) **Moderate Burden – Resolving** – communities that have a moderate level of burden, but are demonstrating improvement

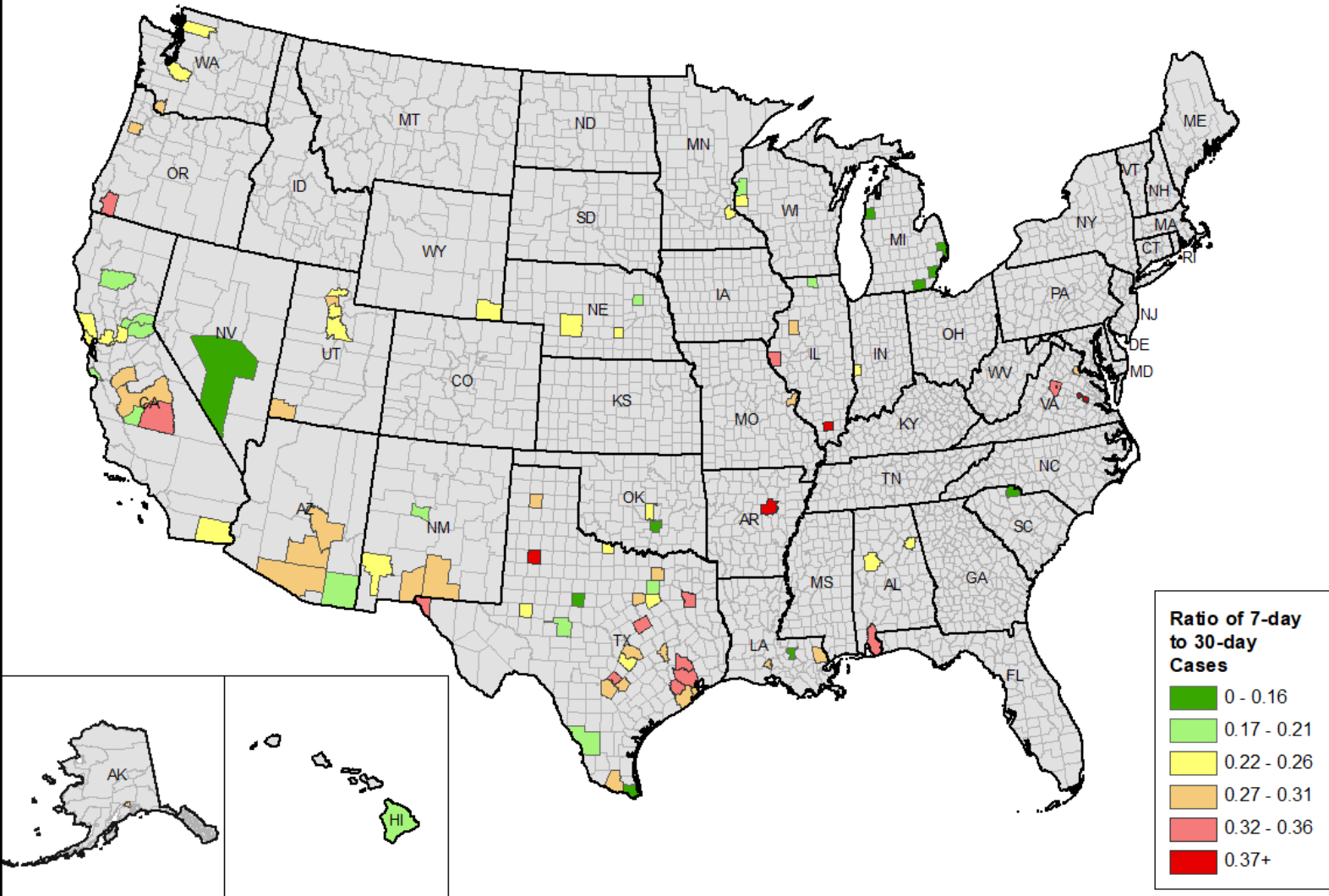
See Data Sources/Methods slides for more information.



# AREA OF CONCERN CONTINUUM - RAPID RISER COUNTIES

Date: 12/1/2022  
Source: CDC Aggregate  
County Data

## Counties with Rapid Rise in Cases in the Last 14 Days



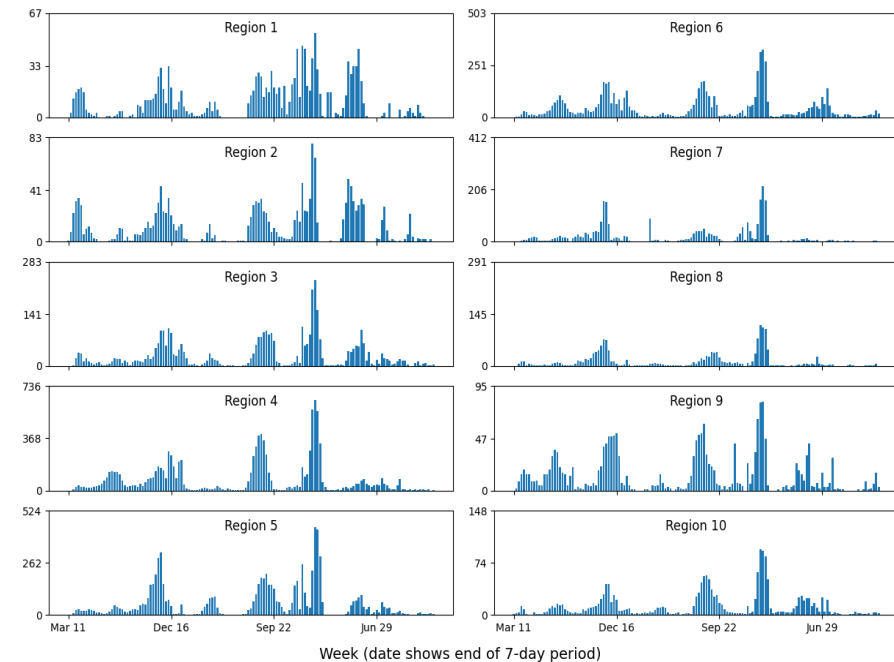
This map shows counties that have seen a rapid rise in cases within the last 14 days by meeting the following **Rapid Riser County** criteria:

- >100 new cases in last 7 days
- >0% change in 7-day incidence
- >-60% change in 3-day incidence
- 7-day incidence / 30-day incidence ratio >0.31
- one or both of the following triggering criteria:
  - (a) >60% change in 3-day incidence,
  - (b) >60% change in 7-day incidence

The color indicates *current* acceleration in cases (ratio of 7-day to 30-day cases). Counties in **light red** and **red** are continuing to see accelerating cases in the most recent week, while those in **dark green** and **green** may have seen declines in the most recent week.

The bar charts below show the history of rapid riser counties by FEMA region and week, indicating when different geographic areas have seen the greatest acceleration in cases.

**# of Distinct Rapid Riser Counties by Week and FEMA Region**  
(vertical axis scaled to number of counties in region)



Due to changes in county case data reporting, rapid riser classifications will be retired in December 2022.

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# NATIONAL AND REGIONAL METRICS

## National Metrics

	Last 7 days					Change from previous week					Daily case trend - last 8 weeks
	Cases (per 100k)	NAAT positivity	Confirmed admissions (per 100k)	ICU COVID-19 utilization	Deaths (per 100k)	Pct change in cases	Absolute change in NAAT pos.	Pct change in confirmed admissions	Absolute change in ICU COVID-19 util.	Pct change in deaths	
U.S. Total - Last 7 Days	303,101 (91)	10.7%	29,407 (8.9)	4%	1,780 (0.5)	-1%	+2.0%	+18%	0%	-32%	
U.S. Total - 1 Week Ago	306,856 (92)	8.7%	25,001 (7.5)	4%	2,634 (0.8)	+9%	+0.7%	+7%	0%	+18%	
U.S. Total - Nov 2022 Peak	306,856 (92)	11.0%	30,132 (9.1)	4%	2,634 (0.8)						
U.S. Total - Oct 2022 Peak	326,754 (98)	8.4%	24,294 (7.3)	4%	3,011 (0.9)						
U.S. Total - Sep 2022 Peak	611,897 (184)	13.1%	35,635 (10.7)	5%	3,829 (1.2)						
U.S. Total - Aug 2022 Peak	892,424 (269)	18.0%	43,498 (13.1)	6%	3,943 (1.2)						
U.S. Total - Jul 2022 Peak	967,306 (291)	18.6%	45,063 (13.6)	6%	3,306 (1.0)						
U.S. Total - Jun 2022 Peak	798,389 (240)	16.3%	35,273 (10.6)	4%	2,784 (0.8)						
U.S. Total - May 2022 Peak	781,870 (235)	11.8%	26,766 (8.1)	3%	2,996 (0.9)						
U.S. Total - Apr 2022 Peak	399,544 (120)	6.7%	14,460 (4.4)	3%	4,650 (1.4)						
U.S. Total - Mar 2022 Peak	387,716 (117)	3.8%	30,275 (9.1)	10%	11,296 (3.4)						

Last 7 days indicates cases/deaths data from 11/24-11/30, admissions data from 11/23-11/29, and testing data from 11/22-11/28.

## Regional Metrics

FEMA Region (Population)	Last 7 days					Change from previous week					Daily case trend - last 8 weeks
	Cases (per 100k)	NAAT positivity	Confirmed admissions (per 100k)	ICU COVID-19 utilization	Deaths (per 100k)	Pct change in cases	Absolute change in NAAT pos.	Pct change in confirmed admissions	Absolute change in ICU COVID-19 util.	Pct change in deaths	
Region 9 (51,554,700)	56,719 (110)	22.0%	5,565 (10.8)	5%	148 (0.3)	-3%	+12.8%	+28%	1%	-52%	
Region 2 (31,635,735)	51,448 (163)	11.2%	3,977 (12.6)	5%	279 (0.9)	+10%	+1.9%	+11%	0%	-6%	
Region 4 (66,908,139)	44,765 (67)	9.8%	4,075 (6.1)	3%	381 (0.6)	+13%	+2.5%	+23%	0%	-23%	
Region 5 (52,542,063)	43,831 (83)	9.8%	5,278 (10.0)	4%	268 (0.5)	-29%	+1.6%	+11%	0%	-62%	
Region 6 (42,716,279)	29,339 (69)	11.5%	2,863 (6.7)	4%	106 (0.2)	+4%	+2.3%	+31%	1%	-20%	
Region 3 (30,854,848)	25,148 (82)	9.2%	2,361 (7.7)	4%	263 (0.9)	+9%	+1.1%	+2%	0%	-15%	
Region 8 (12,258,952)	14,561 (119)	14.7%	1,526 (12.4)	4%	71 (0.6)	-5%	+0.4%	+18%	0%	+29%	
Region 7 (14,140,220)	13,989 (99)	20.0%	1,424 (10.1)	4%	87 (0.6)	+12%	+1.9%	+24%	1%	-14%	
Region 1 (14,845,063)	11,717 (79)	7.7%	1,446 (9.7)	5%	117 (0.8)	+8%	+1.5%	+13%	0%	-22%	
Region 10 (14,351,240)	11,442 (80)	8.5%	892 (6.2)	5%	57 (0.4)	+5%	+1.4%	+17%	1%	-31%	

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# STATE PROFILES

States, DC, and PR listed alphabetically  
Case Data from November 24-30, Admissions Data from November 23-29, Test Positivity Data from November 22-28

State	Last 7 days			Change from previous week			Daily case trend - last 8 weeks	State	Last 7 days			Change from previous week			Daily case trend - last 8 weeks
	Cases (per 100k)	NAAT positivity	Confirmed admissions (per 100k)	Pct. change in cases	Abs. change in NAAT pos.	Pct. change in conf. adm. per 100k			Cases (per 100k)	NAAT positivity	Confirmed admissions (per 100k)	Pct. change in cases	Abs. change in NAAT pos.	Pct. change in conf. adm. per 100k	
AL	4,186 (85)	8.9%	307 (6.3)	+46%	+4.3%	+21%		MT	918 (86)	10.3%	111 (10.4)	-5%	+0.7%	+25%	
AK	398 (54)	5.7%	42 (5.7)	-7%	-0.4%	+17%		NE	1,982 (102)	16.8%	235 (12.1)	-3%	+1.3%	+44%	
AZ	12,987 (178)	25.7%	1,125 (15.5)	-3%	+1.5%	+15%		NV*	2,660 (86)	N/A	323 (10.5)	+20%	N/A	+47%	
AR	2,526 (84)	7.9%	211 (7.0)	+45%	+2.3%	+57%		NH	892 (66)	7.9%	75 (5.5)	+9%	+0.9%	-16%	
CA*	39,963 (101)	N/A	4,000 (10.1)	-3%	N/A	+30%		NJ	13,060 (147)	8.2%	1,206 (13.6)	+17%	+0.1%	+18%	
CO	7,320 (127)	12.7%	871 (15.1)	-10%	+0.2%	+17%		NM	3,932 (188)	15.8%	221 (10.5)	-14%	-0.2%	-10%	
CT	2,805 (79)	8.9%	465 (13.0)	-2%	+1.8%	+17%		NY	31,909 (164)	11.5%	2,646 (13.6)	+15%	+2.0%	+9%	
DE	887 (91)	9.1%	103 (10.6)	+27%	+2.2%	+41%		NC	6,845 (65)	8.3%	511 (4.9)	+11%	+1.7%	+11%	
DC	291 (41)	7.8%	90 (12.8)	-49%	+1.6%	+25%		ND	764 (100)	12.6%	85 (11.2)	-6%	+1.0%	+12%	
FL	12,843 (60)	10.7%	1,451 (6.8)	+10%	+2.1%	+15%		OH	0 (0)	10.7%	1,367 (11.7)	-100%	+1.0%	+15%	
GA	6,244 (59)	10.4%	558 (5.3)	+54%	+4.0%	+18%		OK	2,908 (73)	10.0%	273 (6.9)	-10%	+1.3%	+29%	
HI	962 (68)	8.9%	110 (7.8)	-13%	+1.8%	+29%		OR	3,914 (93)	7.7%	353 (8.4)	+10%	+1.6%	+28%	
ID	1,462 (82)	14.6%	157 (8.8)	+3%	+4.1%	+11%		PA	10,730 (84)	9.5%	1,125 (8.8)	+7%	+0.4%	-6%	
IL	16,575 (131)	8.3%	1,412 (11.1)	+11%	+2.4%	+11%		PR	6,454 (202)	22.0%	125 (3.9)	-17%	+4.4%	-6%	
IN	6,336 (94)	13.4%	623 (9.3)	+7%	+1.7%	+28%		RI	1,008 (95)	9.3%	77 (7.3)	-5%	+0.8%	+4%	
IA†	2,700 (86)	N/A	264 (8.4)	+17%	N/A	+29%		SC	3,028 (59)	10.2%	264 (5.1)	-1%	+3.5%	+35%	
KS	3,429 (118)	14.8%	270 (9.3)	+17%	+1.5%	+26%		SD	1,108 (125)	23.3%	94 (10.6)	+31%	+0.1%	-3%	
KY	4,583 (103)	8.0%	399 (8.9)	+29%	+0.8%	+47%		TN	5,202 (76)	11.1%	463 (6.8)	-24%	+1.5%	+54%	
LA	2,651 (57)	9.7%	381 (8.2)	-8%	+3.1%	+30%		TX	17,322 (60)	11.8%	1,777 (6.1)	+11%	+3.3%	+36%	
ME	847 (63)	6.6%	89 (6.6)	+43%	+1.1%	+41%		UT	3,952 (123)	18.9%	300 (9.4)	+1%	+0.1%	+19%	
MD	4,132 (68)	7.4%	412 (6.8)	-4%	+0.3%	-1%		VT	335 (54)	9.4%	31 (5.0)	+12%	+2.1%	-26%	
MA	5,830 (85)	6.9%	709 (10.3)	+11%	+1.5%	+16%		VA	7,627 (89)	10.5%	492 (5.8)	+23%	+1.8%	+14%	
MI	8,831 (88)	12.1%	837 (8.4)	-1%	+1.0%	-1%		WA	5,668 (74)	8.2%	340 (4.5)	+4%	+0.9%	+10%	
MN	4,887 (87)	9.2%	552 (9.8)	-19%	+0.6%	+9%		WV	1,481 (83)	7.5%	139 (7.8)	+10%	+0.6%	+28%	
MS	1,834 (62)	12.2%	122 (4.1)	+33%	+3.8%	+31%		WI	7,202 (124)	9.4%	487 (8.4)	+22%	+1.0%	+4%	
MO	5,878 (96)	24.4%	655 (10.7)	+13%	+2.0%	+15%		WY	499 (86)	11.8%	65 (11.2)	-15%	+1.2%	+71%	

\*CA and NV testing data have at least 6 days with no or minimal reporting in the last week (by the data cutoff time for this report), which may result in missing values and inaccurate test positivity.

Weekly totals and week-on-week changes in cases and deaths may be impacted by the Thanksgiving holiday.

Due to the Thanksgiving Holiday, Ohio shifted its reporting cadence and therefore does not have case or death data for the last week.

Due to the Thanksgiving holiday, Mississippi's reported cases and deaths in the last week may be an overestimate.

†As of 2/17/2022, IA is no longer reporting negative test results; therefore, test volume and test positivity from this date forward is no longer presented.

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# TRENDS IN CASE INCIDENCE DURING THE LAST 8 WEEKS

## Case incidence categories

(based on cases per 100,000 population in the last 7 days)



## Weekly % change categories

(arrow based on % change in weekly cases)



Source: CDC Aggregate County Dataset. State values are the aggregate of constituent counties; these data are updated weekly. See Data Sources/Methods slides for additional details.



Weekly totals and week-on-week changes in cases and deaths may be impacted by the Thanksgiving holiday.  
 Due to the Thanksgiving Holiday, Ohio shifted its reporting cadence and therefore does not have case or death data for the last week.  
 Due to the Thanksgiving holiday, Mississippi's reported cases and deaths in the last week may be an overestimate.



# TRENDS IN MORTALITY RATE DURING THE LAST 4 WEEKS AND 4 WEEK FORECAST

## Mortality rate categories

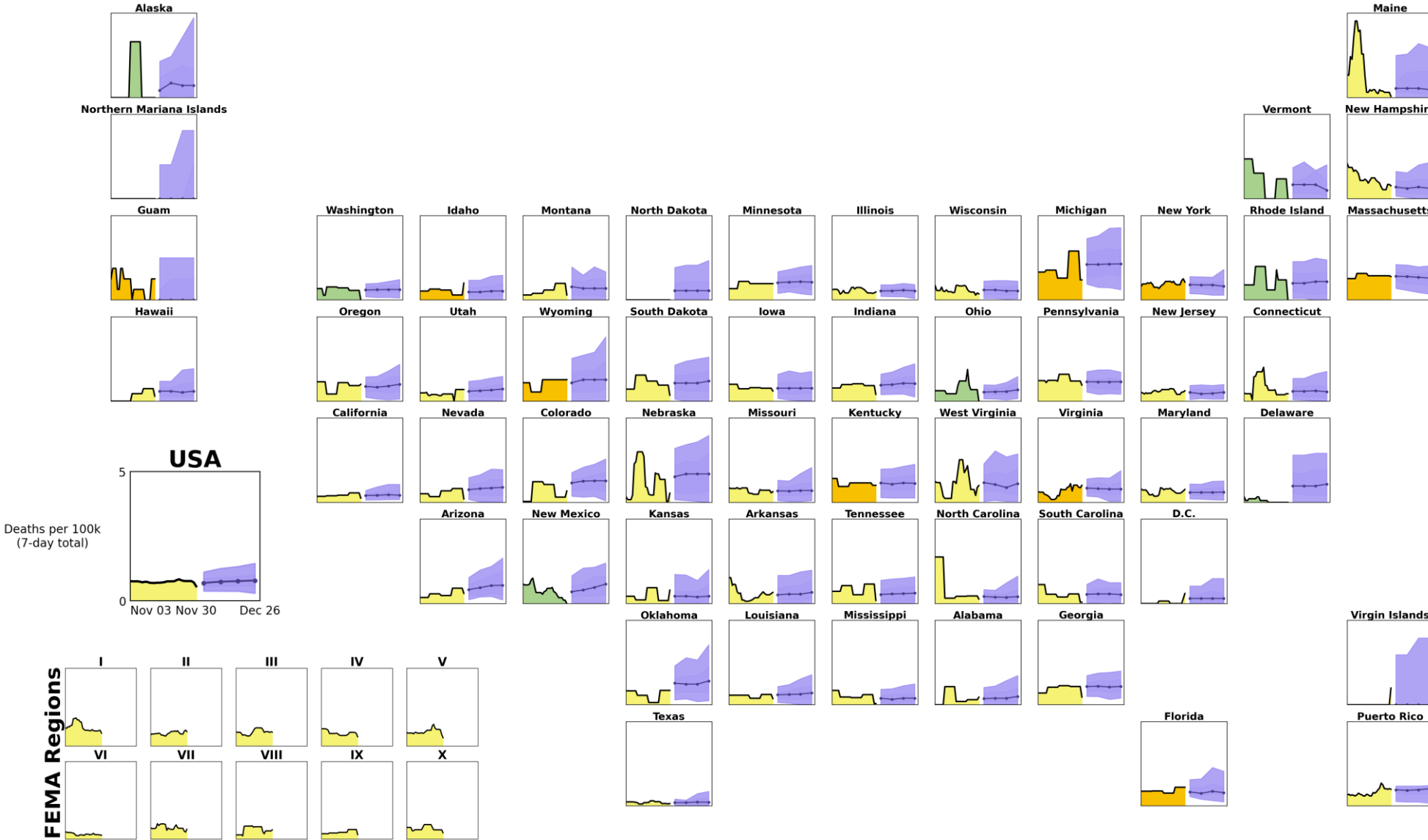
(based on deaths per 100,000 population in the last 7 days)



Projected Deaths  
 50% Prediction Interval  
 95% Prediction Interval

Source: CDC Aggregate County Dataset. State values are the aggregate of constituent counties; these data are updated weekly. Indicates date of report for most states, but date of death for some. See Data Sources/Methods for additional details.

Forecast: The forecast displays projected weekly death totals using an ensemble of predictive models generated by academic, private industry, and governmental groups. Models make various assumptions about the levels of social distancing and other interventions, which may not reflect recent changes in behavior. FEMA regions are not included in the forecast. More information is available at [the COVID-19 Forecast Hub](#). The forecast date is as of 11/28.

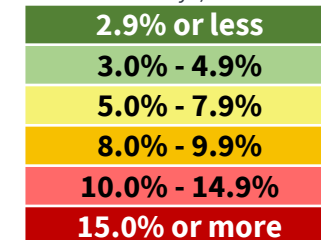


Weekly totals and week-on-week changes in cases and deaths may be impacted by the Thanksgiving holiday.  
 Due to the Thanksgiving Holiday, Ohio shifted its reporting cadence and therefore does not have case or death data for the last week.  
 Due to the Thanksgiving holiday, Mississippi's reported cases and deaths in the last week may be an overestimate.

# TRENDS IN NAAT POSITIVITY DURING THE LAST 8 WEEKS

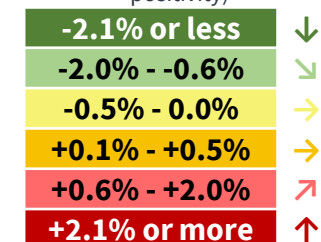
## NAAT positivity categories

(based on proportion of positive tests over the last 7 days)



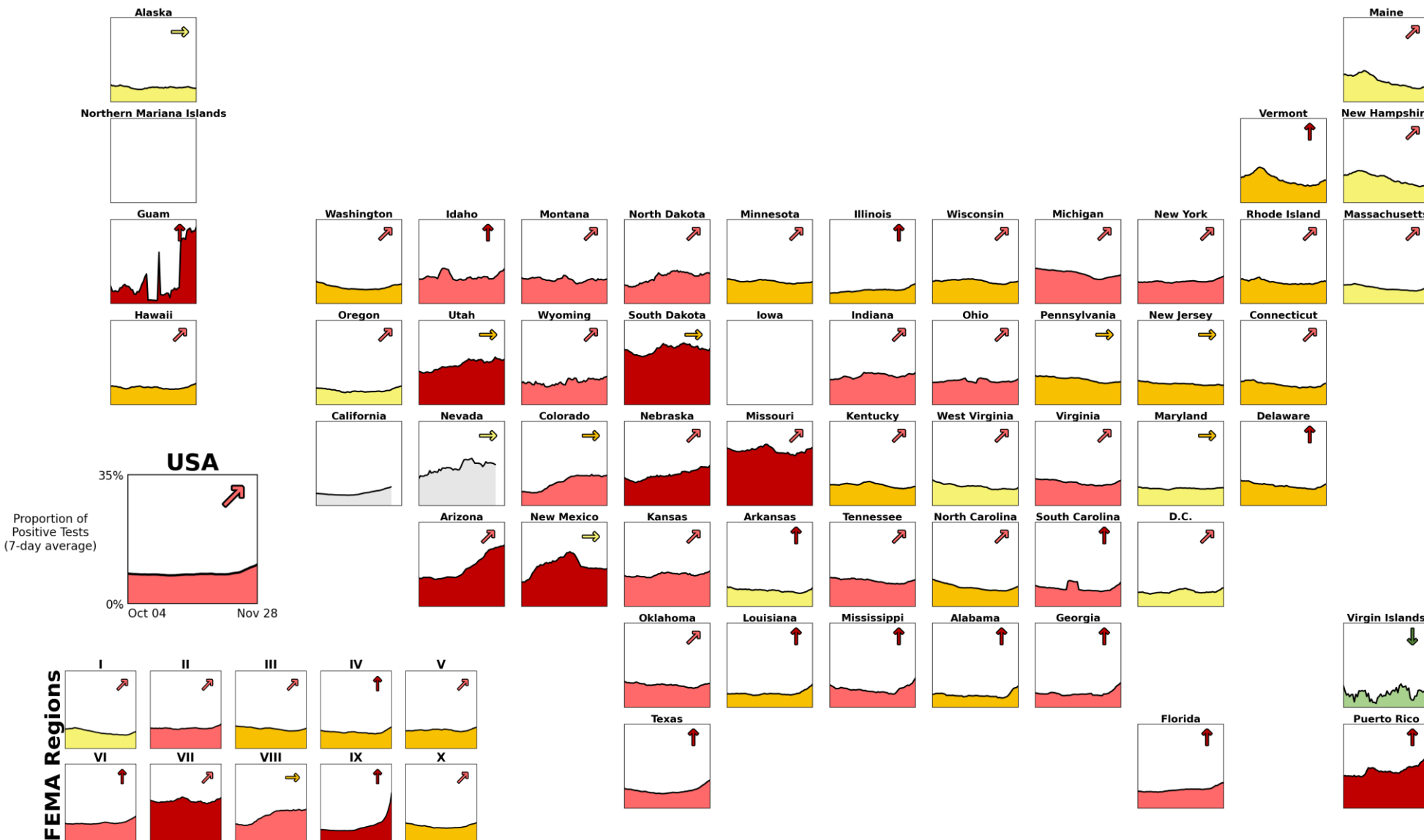
## Weekly absolute change categories

(arrow based on absolute change in weekly NAAT positivity)



Most recent dates may be less reliable due to delayed reporting. Gray shading indicates limited or no reporting in most recent week. Missing arrows are due to missing data.

**Source:** Unified Testing Dataset. See Data Sources/Methods slides for additional details.



CA and NV testing data have at least 6 days with no or minimal reporting in the last week (by the data cutoff time for this report), which may result in missing values and inaccurate test positivity.

As of 2/17/2022, IA is no longer reporting negative test results; therefore, test volume and test positivity from this date forward is no longer presented.

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# TRENDS IN EMERGENCY DEPARTMENT DISCHARGE DIAGNOSES DURING THE LAST 8 WEEKS

## Average percent of ED visits with COVID-19 discharge diagnosis

(based on proportion of discharge diagnoses including COVID-19 over the last 7 days)

0.9% or less

1.0% - 2.9%

3.0% - 4.9%

5.0% - 7.9%

8.0% or more

## Weekly absolute change

(based on change in COVID-19 diagnosis percentage, or COVID-19 ED visit percentage where diagnosis data is incomplete)

-2% or less



-2% - -1%



-0% - +0%



+1% - +2%



+2%



+3% or more



Missing arrows are due to missing data.

**Primary Source:** National Syndromic Surveillance Program (NSSP). <50% of ED facilities in CA, HI, IA, MN, and OK participate in NSSP. MO discharge diagnosis data is incomplete.

**Secondary Source:** Unified Hospital Dataset ED visits. This includes all visits related to COVID-19, which includes patients that “meet suspected or confirmed definition or presents for COVID diagnostic testing”.

See Data Sources/Methods slides for additional details.



\*Some states have low participation rates in NSSP (<15% of facilities) or unavailable ED diagnosis data. Therefore, the Unified Hospital Dataset was used to generate the trend arrow for comparison.

Trends missing data for the most recent day have been colored gray.

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# TRENDS IN HOSPITAL ADMISSIONS DURING THE LAST 8 WEEKS

**Confirmed admission rate categories**  
(based on confirmed COVID-19 hospital admissions per 100,000 population over the last 7 days)



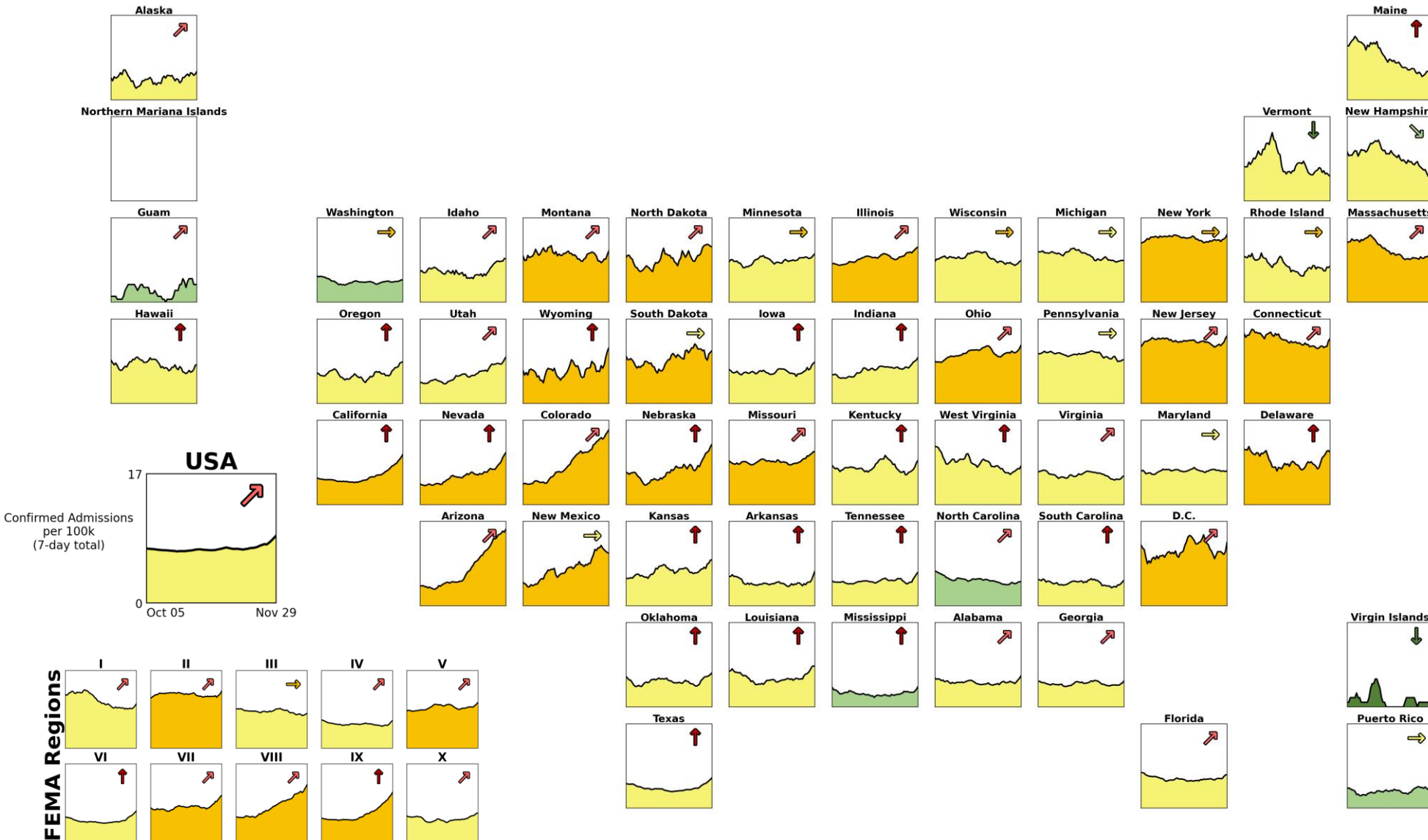
**Weekly % change categories**

(arrow based on % change in weekly confirmed COVID-19 hospital admissions)



Figure depicts confirmed COVID-19 hospital admissions per 100,000 population. Missing arrows are due to missing data.

**Source:** Unified Hospital Dataset. See Data Sources/Methods slides for additional details.



# TRENDS IN HOSPITAL INPATIENT COVID UTILIZATION DURING THE LAST 8 WEEKS

## Inpatient bed utilization categories

(based on average percentage of beds occupied by confirmed COVID-19 patients over the last 7 days)

3% or less

4% - 7%

8% - 12%

13% - 15%

16% - 20%

21% or more

## Weekly absolute change categories

(arrow based on absolute change in weekly % of beds occupied by confirmed COVID-19 patients)

-2% or less



-1%



0%



+1%



+2%

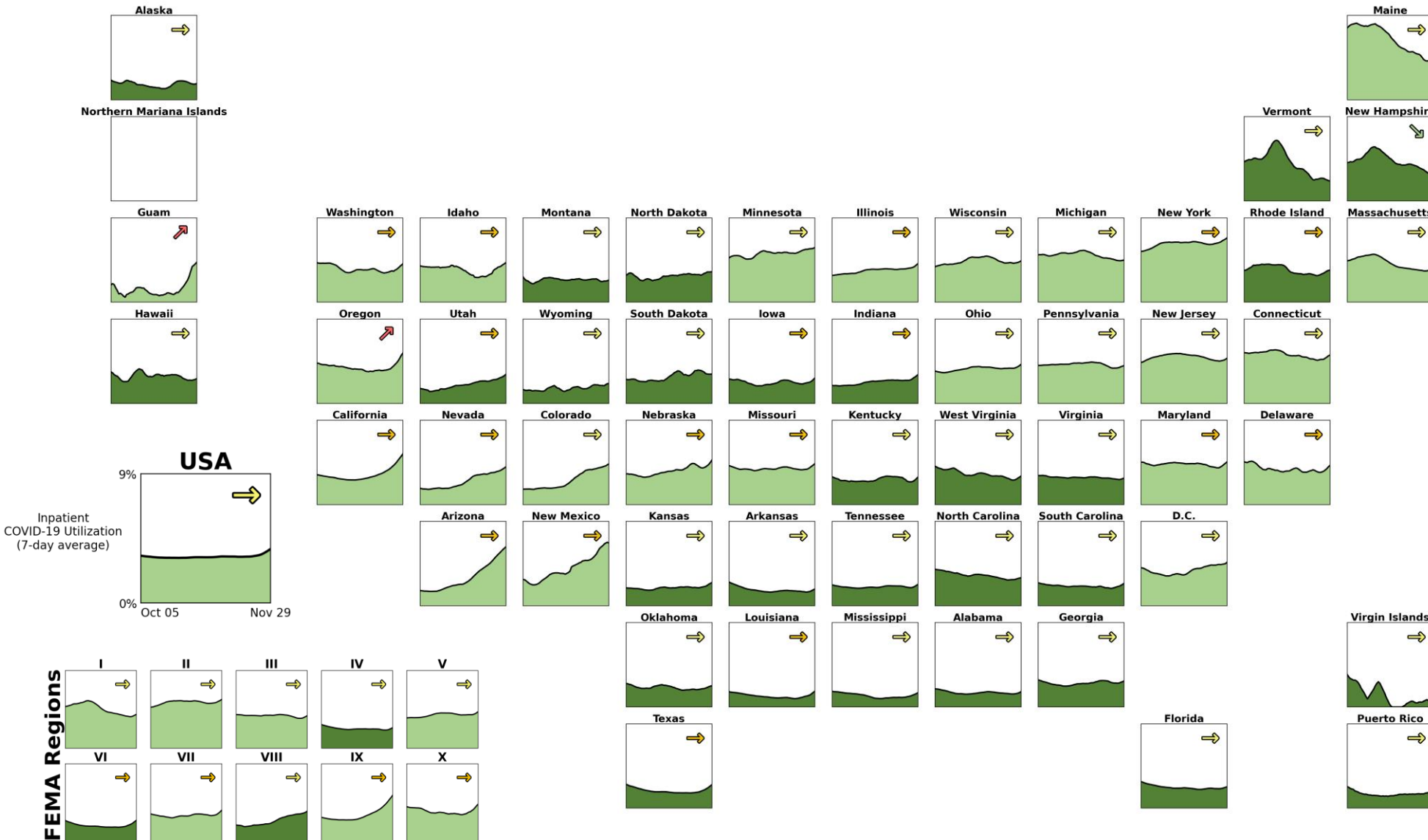


+3% or more



Missing arrows are due to missing data.

**Source:** Unified Hospital Dataset. See Data Sources/Methods slides for additional details.





# TRENDS IN STAFFED ADULT ICU BED CAPACITY DURING THE LAST 8 WEEKS

## Staffed Adult ICU COVID Utilization categories

(based on average percentage of beds occupied by confirmed COVID-19 patients over the last 7 days)

**3% or less**

**4% - 7%**

**8% - 12%**

**13% - 15%**

**16% - 20%**

**21% or more**

## Weekly absolute change categories

(arrow based on absolute change in weekly % of ICU beds occupied by confirmed COVID-19 patients)

**-2% or less**



**-1%**



**0%**



**+1%**



**+2%**

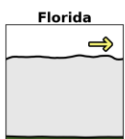
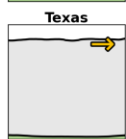
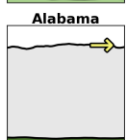
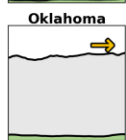
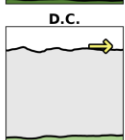
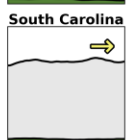
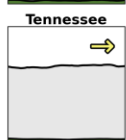
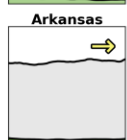
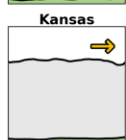
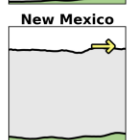
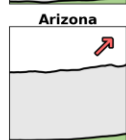
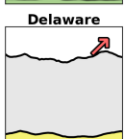
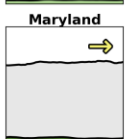
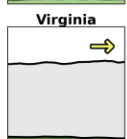
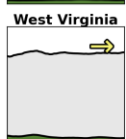
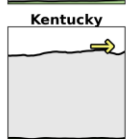
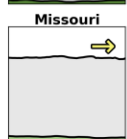
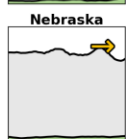
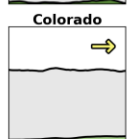
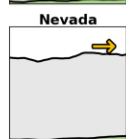
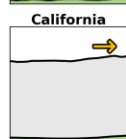
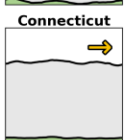
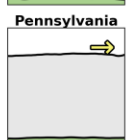
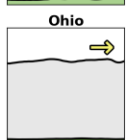
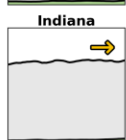
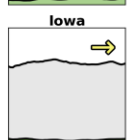
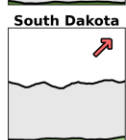
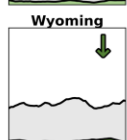
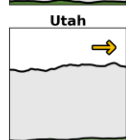
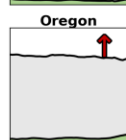
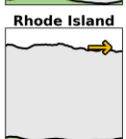
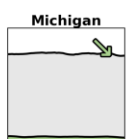
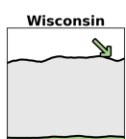
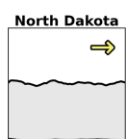
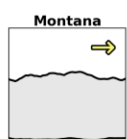
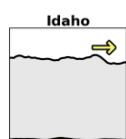
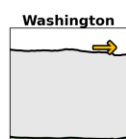
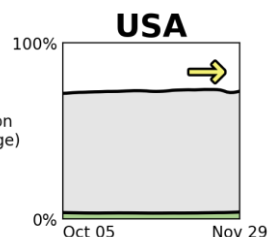
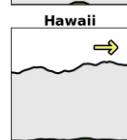
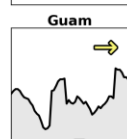
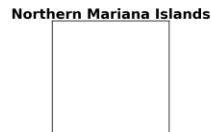


**+3% or more**

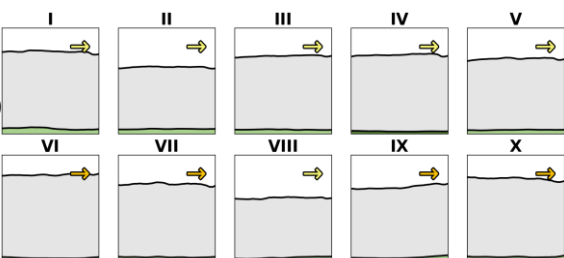


Color based on ICU confirmed COVID-19 utilization only. Light gray based on overall ICU utilization. Most recent dates may be less reliable due to delayed reporting. Missing arrows are due to missing data.

**Source:** Unified Hospital Dataset. See Data Sources/Methods slides for additional details.



FEMA Regions



# TRENDS IN PERCENT OF POPULATION AGED <5 INITIATING VACCINATION DURING THE LAST 8 WEEKS

## Percent of population <5 initiating vaccination

(based on percent of population in last 7 days)

**+0.5% or less**

**+0.6% - +1.0%**

**+1.1% - +1.5%**

**+1.6% - +2.0%**

**+2.1% - +2.5%**

**+2.6% - +3.0%**

**+3.1% or more**

## Weekly absolute change categories

(arrow based on absolute change in percent of population)

**-0.26% or less**



**-0.25% - -0.11%**



**-0.10% - +0.01%**



**+0.02% - +0.10%**



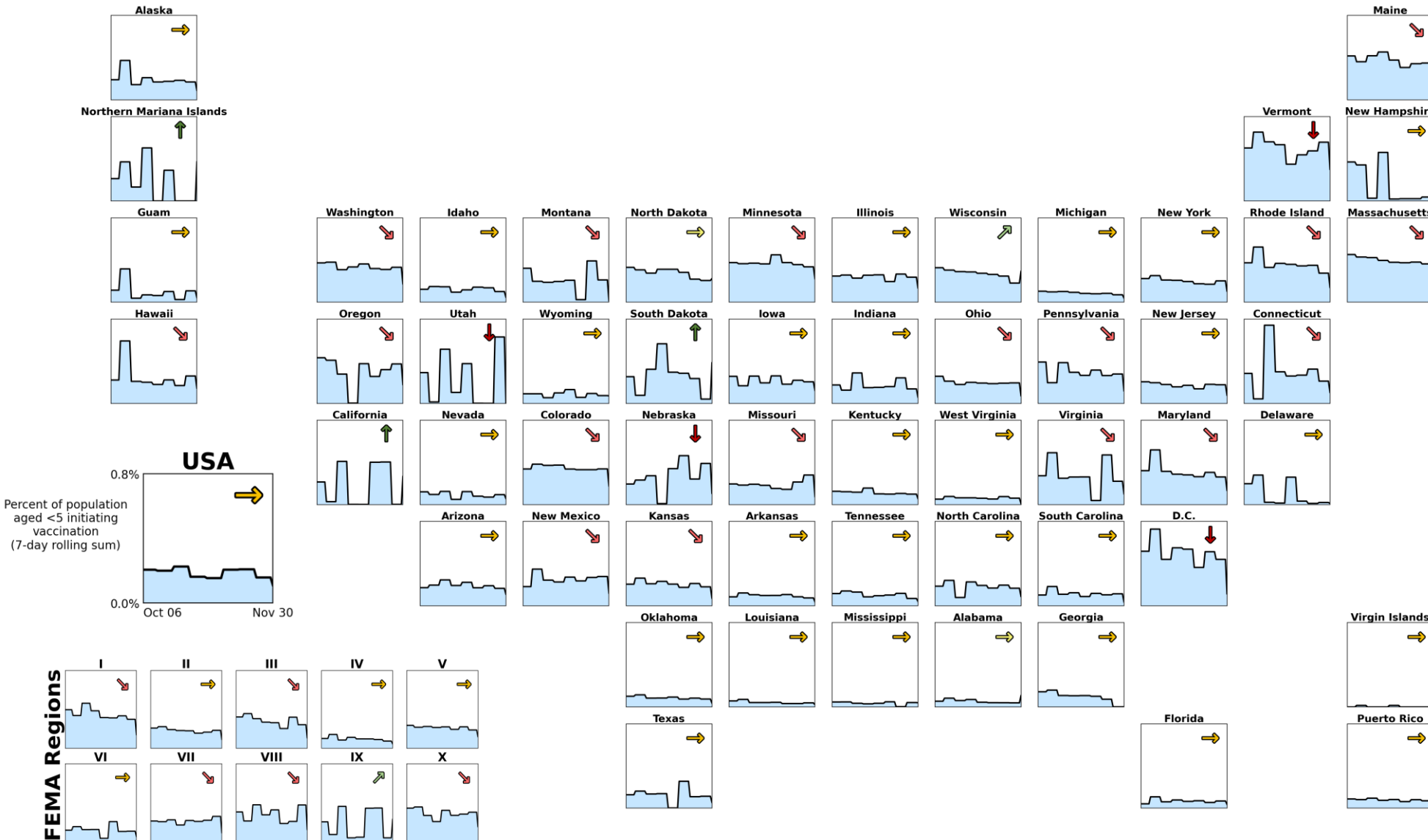
**+0.11% - +0.25%**



**+0.26% or more**



Source: Unified COVID-19 Vaccine Dataset. See Data Sources/Methods slides for additional details.



# TRENDS IN PERCENT OF POPULATION AGED 5+ INITIATING VACCINATION DURING THE LAST 8 WEEKS

## Percent of population 5+ initiating vaccination

(based on percent of population in last 7 days)



## Weekly absolute change categories

(arrow based on absolute change in percent of population)



Missing arrows are due to missing data.

Source: Unified COVID-19 Vaccine Dataset. See Data Sources/Methods slides for additional details.



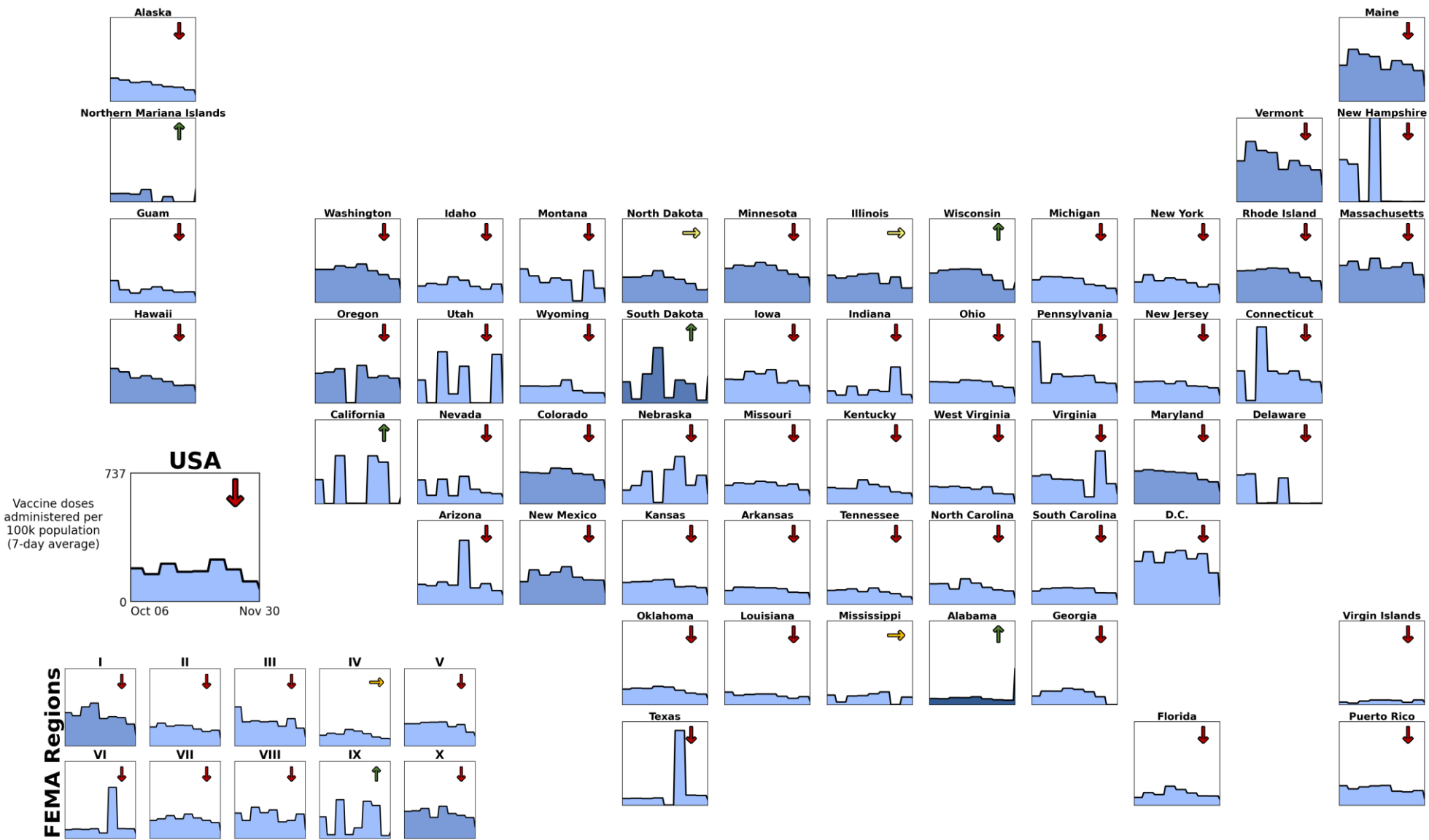
CA recently issued corrections to their vaccination data, resulting in negative values for people ages 5+ initiating vaccination in CA as well as Region 9 and at the national level.

IL recently issued corrections to their vaccination data, resulting in negative values for some age groups initiating vaccination in the previous week, therefore the week-on-week change cannot be calculated.

INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



# TRENDS IN VACCINE DOSES ADMINISTERED PER 100K POPULATION DURING THE LAST 8 WEEKS



## COVID-19 vaccine doses administered

(based on average daily COVID-19 vaccine doses administered per 100k in last 7 days)

0 - 100
101 - 200
201 - 300
301 - 400
401 - 500
501 or more

## Weekly % change categories

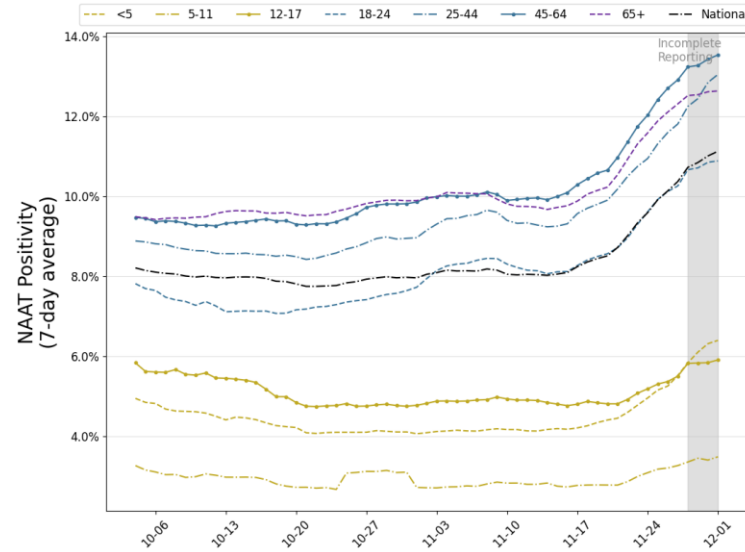
(arrow based on % change in weekly COVID-19 vaccine doses administered)

-26% or less	↓
-25% - -11%	↘
-10% - +0%	→
+1% - +10%	↗
+11% - +25%	↑
+26% or more	↑

Source: Unified COVID-19 Vaccine Dataset. See Data Sources/Methods slides for additional details.

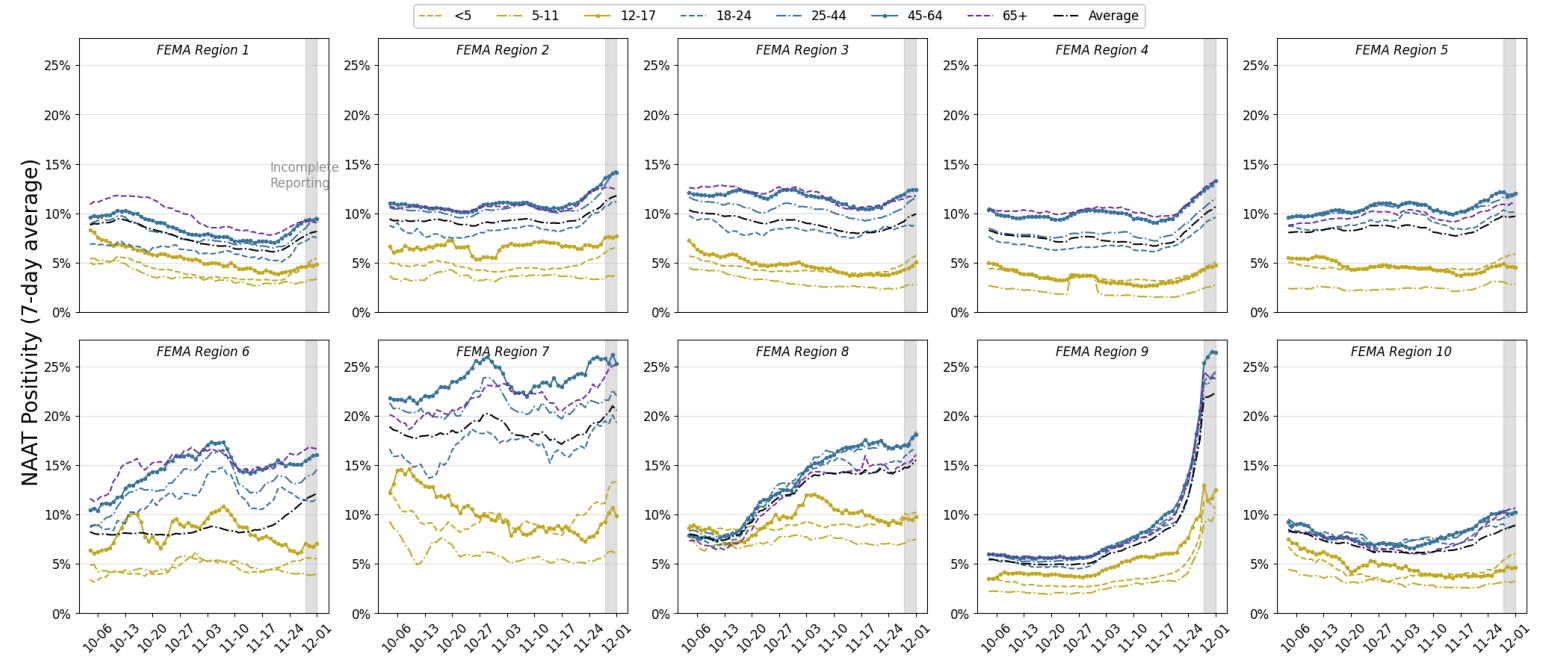
# TRENDS IN COVID-19 TEST POSITIVITY BY AGE GROUP AND REGION

## National



Age group	Test positivity (last 7 days)	abs. change from previous week
<5	5.8%	+1.4% ↗
5-11	3.3%	+0.6% ↗
12-17	5.8%	+1.0% ↗
18-24	10.7%	+2.0% ↗
25-44	12.2%	+2.1% ↑
45-64	13.2%	+2.3% ↑
65+	12.5%	+2.0% ↗

## Regional

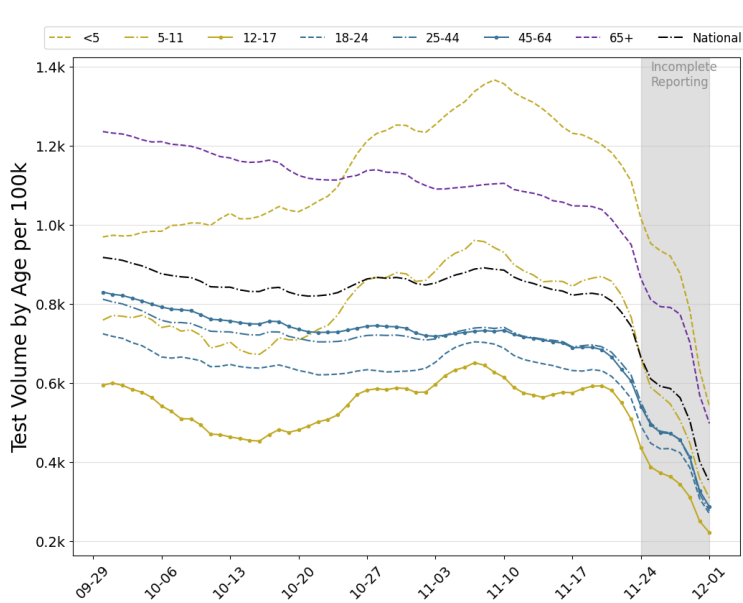


Age group	Region 1 abs. change	Region 2 abs. change	Region 3 abs. change	Region 4 abs. change	Region 5 abs. change	Region 6 abs. change	Region 7 abs. change	Region 8 abs. change	Region 9 abs. change	Region 10 abs. change
<5	+1.4% ↗	+1.3% ↗	+0.9% ↗	+1.0% ↗	+1.3% ↗	+1.0% ↗	+1.1% ↗	+1.1% ↗	+7.0% ↑	+1.5% ↗
5-11	+0.1% →	+0.0% →	+0.2% →	+0.9% ↗	+0.7% ↗	-0.5% →	+0.7% ↗	+0.2% →	+5.9% ↑	+0.5% →
12-17	+0.7% ↗	+1.1% ↗	+0.5% →	+1.2% ↗	+1.0% ↗	+0.0% →	+1.3% ↗	+0.2% →	+6.8% ↑	+0.5% →
18-24	+1.9% ↗	+2.1% ↑	+0.4% →	+2.1% ↑	+1.7% ↗	-1.1% ↘	+2.8% ↑	+1.5% ↗	+14.1% ↑	+0.8% ↗
25-44	+1.8% ↗	+2.6% ↑	+1.1% ↗	+2.4% ↑	+1.2% ↗	-0.3% →	+0.5% →	+0.3% →	+13.0% ↑	+0.9% ↗
45-64	+2.1% ↑	+2.5% ↑	+1.3% ↗	+2.4% ↑	+1.3% ↗	-0.1% →	+1.5% ↗	-0.3% →	+14.4% ↑	+1.5% ↗
65+	+1.2% ↗	+1.8% ↗	+0.7% ↗	+2.6% ↑	+1.0% ↗	+1.4% ↗	+2.3% ↑	+0.2% →	+14.2% ↑	+2.4% ↑

Source: Unified Testing Dataset. Figures show 7-day average over the last 8 weeks. See Data Sources/Methods slides for additional details. Absolute change is shown as light red if +0.6% to +2.0%, and dark red if +2.1% or higher.

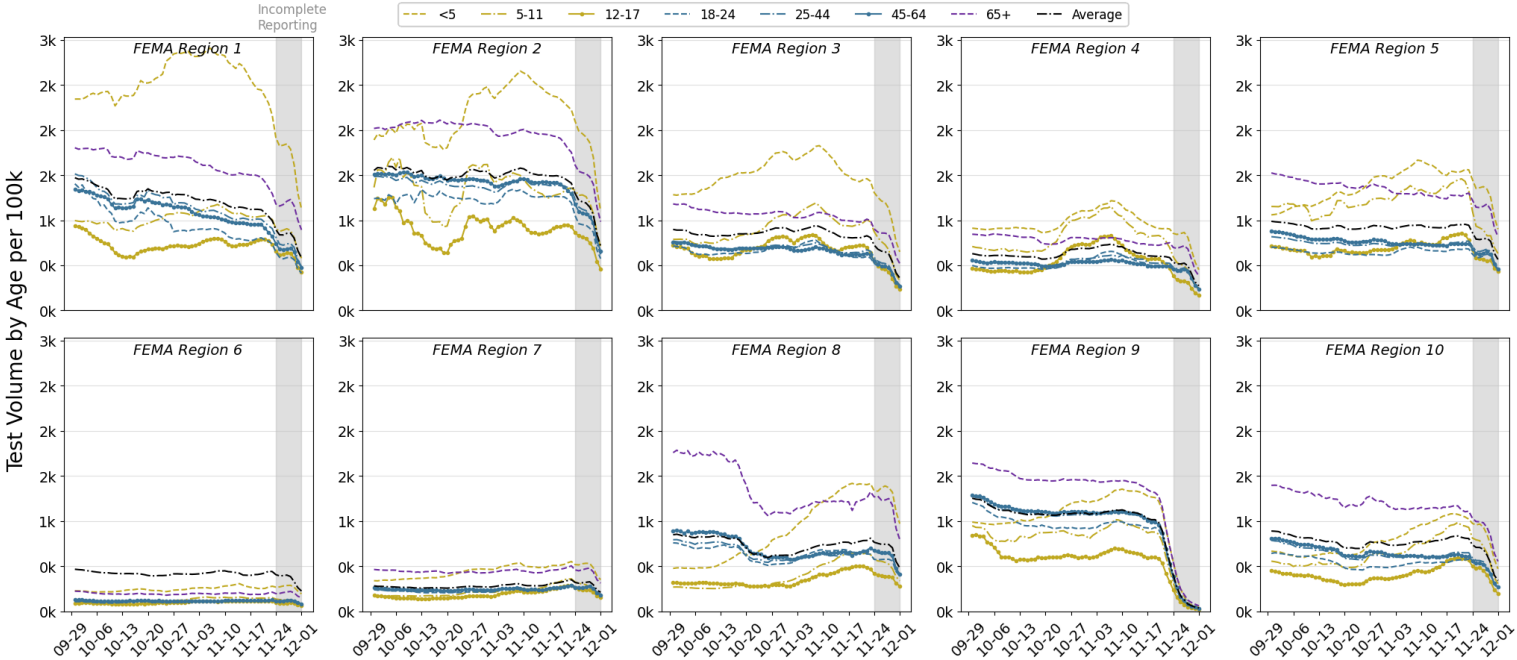
# TRENDS IN COVID-19 TEST VOLUME BY AGE GROUP AND REGION

## National



Age group	Test volume per 100k (last 7 days)	% change from previous week
<5	1,015	-18% ↘
5-11	662	-22% ↘
12-17	435	-24% ↘
18-24	491	-22% ↘
25-44	550	-20% ↘
45-64	540	-22% ↘
65+	863	-18% ↘

## Regional



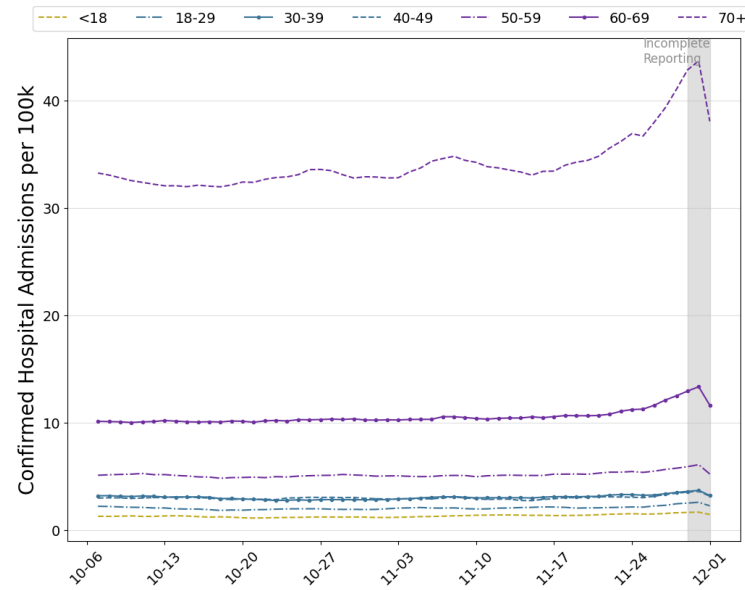
Age group	Region 1 % change	Region 2 % change	Region 3 % change	Region 4 % change	Region 5 % change	Region 6 % change	Region 7 % change	Region 8 % change	Region 9 % change	Region 10 % change
<5	-25% ↘	-12% ↘	-12% ↘	-11% ↘	-3% →	+1% →	+3% →	-5% →	-57% ↓	-8% →
5-11	-13% ↘	+7% →	-7% →	-27% ↓	-19% ↘	-6% →	+9% →	-10% →	-64% ↓	-13% ↘
12-17	-13% ↘	-2% →	-22% ↘	-33% ↓	-16% ↘	-13% ↘	+5% →	-13% ↘	-60% ↓	-10% →
18-24	-17% ↘	-17% ↘	-14% ↘	-11% ↘	-4% →	-1% →	-3% →	-15% ↘	-60% ↓	+1% →
25-44	-19% ↘	-11% ↘	-8% →	-10% →	-1% →	-6% →	+9% →	+8% →	-62% ↓	-5% →
45-64	-22% ↘	-17% ↘	-11% ↘	-7% →	-5% →	-5% →	+4% →	+4% →	-61% ↓	-9% →
65+	-21% ↘	-17% ↘	-9% →	-4% →	-1% →	+5% →	+1% →	+4% →	-59% ↓	-11% ↘

Source: Unified Testing Dataset. Figures show 7-day totals over the last 8 weeks. See Data Sources/Methods slides for additional details.



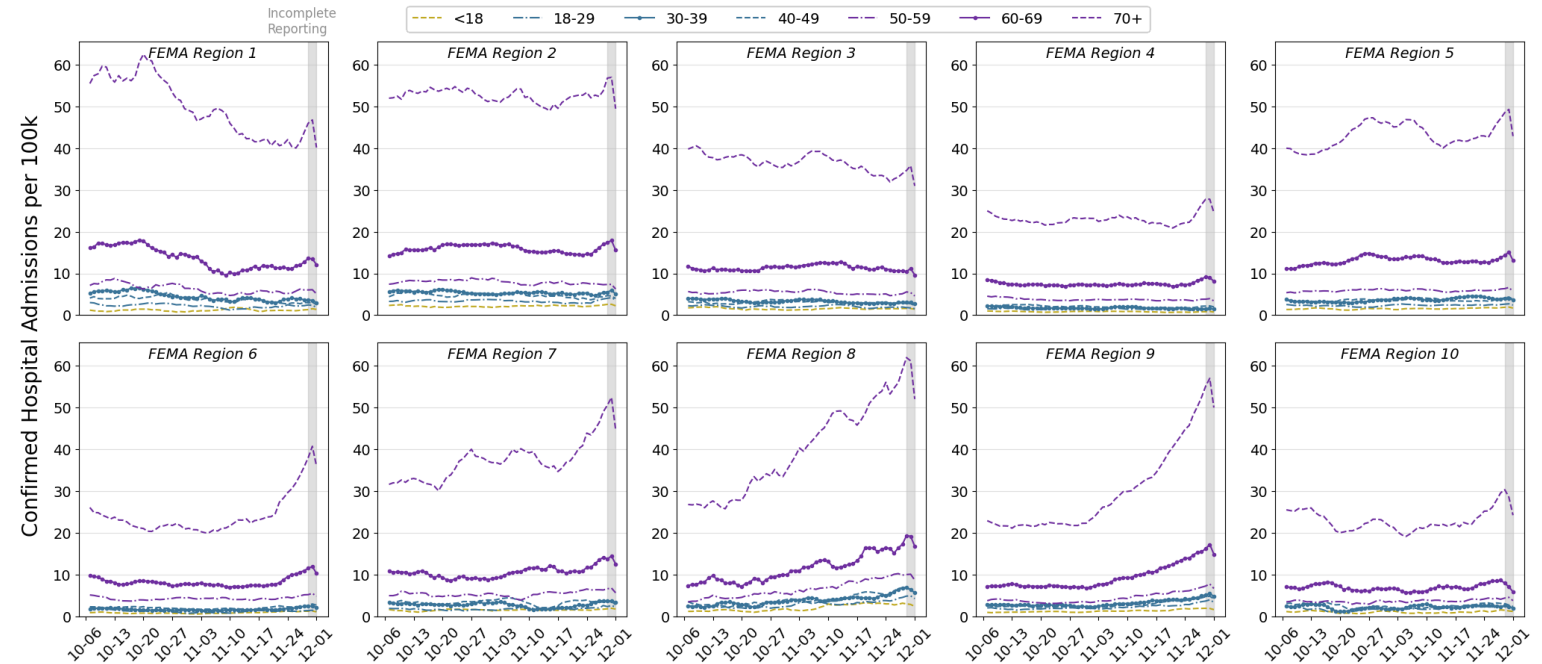
# TRENDS IN CONFIRMED COVID-19 ADMISSIONS BY AGE GROUP AND REGION

## National



Age group	Conf. admits per 100k (last 7 days)	% change from previous week
<18	1.6	+12% ↗
18-29	2.5	+20% ↗
30-39	3.6	+11% ↗
40-49	3.5	+14% ↗
50-59	5.9	+10% →
60-69	12.9	+20% ↗
70+	42.8	+20% ↗

## Regional



Age group	Region 1 % change	Region 2 % change	Region 3 % change	Region 4 % change	Region 5 % change	Region 6 % change	Region 7 % change	Region 8 % change	Region 9 % change	Region 10 % change
<18	+15% ↗	+20% ↗	+4% →	+14% ↗	+13% ↗	+8% →	+18% ↗	-5% →	+13% ↗	+31% ↑
18-29	+28% ↑	+43% ↑	+1% →	-1% →	+6% →	+9% →	+23% ↗	+39% ↑	+42% ↑	-11% ↘
30-39	+13% ↗	+4% →	+8% →	-10% →	-14% ↘	+42% ↑	+34% ↑	+52% ↑	+27% ↑	0% →
40-49	+2% →	+24% ↗	-10% →	+18% ↗	+18% ↗	+4% →	-6% →	+19% ↗	+27% ↑	+8% →
50-59	+8% →	-1% →	+13% ↗	+6% →	+5% →	+19% ↗	+8% →	+10% →	+20% ↗	+7% →
60-69	+20% ↗	+20% ↗	-7% →	+31% ↑	+11% ↗	+43% ↑	+28% ↑	+25% ↗	+25% ↗	+10% →
70+	+13% ↗	+8% →	+4% →	+30% ↑	+14% ↗	+39% ↑	+26% ↑	+16% ↗	+32% ↑	+30% ↑

Source: Unified Hospital Dataset. Figures show 7-day totals over the last 8 weeks. See Data Sources/Methods slides for additional details. Percent change is shown as light red if +11% to +25%, and dark red if +26% or higher.

# DATA SOURCES AND METHODS

## DATA NOTES

- Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in changes from day to day.
- **Population/Demographics:** Population and demographic data is from US Census Vintage 2019 Demographic Estimates.
- **Cases and Deaths:** COVID-19 case metrics at the state and county level are generated using a dataset managed by the CDC which is compiled from state and local health departments. This dataset is updated weekly. Most states and localities report both confirmed and suspected cases and deaths, although some report just confirmed cases and deaths. As of October 20, 2022, CDC transitioned the reporting cadence of COVID-19 aggregate case and death data for jurisdictions and counties from a daily cadence to a weekly cadence. As a result of this reporting change, all charts, graphs, and tables that source data from COVID-19 aggregate case and death data will be updated once a week. For additional guidance, please consult the FAQs addressing this reporting cadence change on the [CDC website](#). To ensure data quality, daily data alerts are monitored for deviations in the data (e.g., decreases in cumulative values, no change in values, abnormal increases in values). These alerts are manually reviewed every day by checking the data against local government websites, state websites, and news sources, and the raw values are corrected as needed to reflect local government reports. Cases and deaths are based on date of report in most states, but on date of symptom onset or date of death in others. Some states use a combination of the two methods. For date of report states, there may be artificial spikes in any given day of data caused by delayed reporting; for date of event states, there are frequent updates to time series and it may take several days (for cases) or several weeks (for deaths) for complete data. Changes in reporting may also cause temporary spikes or dips (e.g. shifts from reporting confirmed and probable cases to reporting just confirmed cases). Case data are presented as 7-day totals or averages to adjust for these anomalies as well as weekly variations in reporting. Historical reports of cases and deaths — for which backfill dates are not available — that exceed 1% of the total new cases or deaths reported in the US that day have been excluded from state daily and weekly trends.
- **Testing:** CELR (COVID-19 Electronic Lab Reporting) state health department-reported data are used to describe state-level totals when able to be disaggregated from serology test results and to describe county-level totals when information is available on patients' county of residence or healthcare providers' practice location. HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and six commercial labs) are used otherwise. Some states did not report on certain days, which may affect the total number of tests resulted and positivity rate values. Total diagnostic tests are the number of tests performed, not the number of individuals tested. NAAT positivity rate is the number of positive tests divided by the number of tests performed and resulted. See <https://www.cdc.gov/coronavirus/2019-ncov/lab/resources/calculating-percent-positivity.html> for more information on this method. Testing data may be backfilled over time, resulting in changes week-to-week in testing data.
- **Hospital Data:** Unified Hospital Dataset, including federal facilities (VA, DHA, and IHS hospitals) and excluding psychiatric, rehabilitation, and religious non-medical hospitals.
  - Hospital data are reported to HHS either directly from facilities or via a state submission. Data for hospitals with the same CMS Certification Number (CCN) are aggregated. Three percent of CCNs contain multiple facilities that map to different counties and some of these may also map to different CBSAs. These data are reported daily by more than 6,000 facilities across the country. While these data are reviewed for errors and corrected, some reporting errors may still exist within the data. To minimize errors in data reported here, extreme outliers are removed from the data before the metrics are calculated.
  - Total inpatient and ICU bed counts are calculated as an average among reports from each hospital in the given timeframe. Unless otherwise noted, "inpatient beds" indicates staffed adult and pediatric inpatient beds, while "ICU beds" indicates staffed adult ICU beds. Utilization metrics calculate the average utilization in the geography for the week. Due to inconsistent reporting and impacts of staffing on the total number of beds at each hospital, variations may occur over time and the number shown may not be a full representation of the true number of resources in the area.

# DATA SOURCES AND METHODS – COLOR THRESHOLDS

## Color Thresholds for Indicators

The green-to-red color thresholds convey information on levels of transmission severity. There are not specific labels associated with each color threshold.

Colors are determined by first rounding a raw number to the nearest integer or tenth, and then selecting the associated color. If there is no data or a metric cannot be computed, a cell is colored gray.

Color thresholds were set based on a variety of factors and analyses, including assessing historical correlations in test positivity and case counts.

Additional shades of red are used for certain visualizations to provide greater context.

**NOTE: Colors are applied after rounding to the displayed digits of precision**

### CASES/DEATHS

Confirmed cases - 7-day total  
Cases per 100k - 7-day total  
Confirmed deaths - 7-day total  
Confirmed deaths per 100k - 7-day total  
Confirmed cases - % change  
Confirmed deaths - % change

DARK GREEN	LIGHT GREEN	YELLOW	ORANGE	LIGHT RED	RED
colored by per capita thresholds					
4 or less	5 – 9	10 – 49	50 – 99	100 – 199	200 or more
colored by per capita thresholds					
not used	0.0	0.1 – 0.9	1.0 – 1.9	2.0 – 4.9	5.0 or more
-26% or less	-25% – -11%	-10% – +0%	+1% – +10%	+11% – +25%	+26% or more

### VIRAL (RT-PCR) LAB TESTING

NAAT positivity rate - 7 day average  
Total NAATs - 7-day total  
NAATs per 100k - 7-day total  
NAAT positivity rate - absolute change  
Total NAATs - percent change

DARK GREEN	LIGHT GREEN	YELLOW	ORANGE	LIGHT RED	RED
2.9% or less	3.0% – 4.9%	5.0% – 7.9%	8.0% – 9.9%	10.0% – 14.9%	15.0% or more
colored by per capita thresholds					
5,000 or more	3,000 – 4,999	2,000 – 2,999	1,000 – 1,999	500 – 999	499 or less
-2.1% or less	-2.0% – -0.6%	-0.5% – +0.0%	+0.1% – +0.5%	+0.6% – +2.0%	+2.1% or more
+26% or more	+25% – +11%	+10% – +1%	+0% – -10%	-11% – -25%	-26% or less

### HOSPITAL UTILIZATION

Confirmed COVID-19 admissions - 7-day total  
Confirmed COVID-19 admissions per 100k - 7-day total  
% inpatient beds occupied  
% ICU beds occupied  
% inpatient beds occupied by COVID-19 patient  
% ICU beds occupied by COVID-19 patient  
Confirmed COVID-19 admissions per 100k - percent change  
% inpatient beds occupied - absolute change  
% inpatient beds occupied by COVID-19 patient - absolute change  
% ICU beds occupied - absolute change  
% ICU beds occupied by COVID-19 patient - absolute change  
Monoclonal antibody courses administered by hospitals - percent change

DARK GREEN	LIGHT GREEN	YELLOW	ORANGE	LIGHT RED	RED
colored by per 100k thresholds					
1.9 or less	2.0 – 4.9	5.0 – 9.9	10.0 – 19.9	20.0 – 29.9	30.0 or more
GRAY 0% – 80%				81% – 90%	91% or more
3% or less	4% – 7%	8% – 12%	13% – 15%	16% – 20%	21% or more
-26% or less	-25% – -11%	-10% – +0%	+1% – +10%	+11% – +25%	+26% or more
-2% or less	-1%	0%	+1%	+2%	+3% or more
100% or more	99% – 20%	19% – 0%	-1% – -19%	-20% – -99%	-100% or less



# DATA SOURCES AND METHODS

## States that have provided no county testing data for the most recent days of reporting:

- All states have provided at least some testing data for the time period in this report.

## States that have provided no state testing data for the most recent days of reporting

- All states have provided at least some testing data for the time period in this report.

## Cases and Deaths

- COVID-19 case metrics at the state and county level are generated using a dataset managed by the CDC which is compiled from state and local health departments; this dataset is updated weekly, with the latest updates as of 12PM 12/1/2022.

## County Test Data Source by State

- **CELRS data from states provided in line level format:** AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, GU, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MP, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, PR, RI, SC, SD, TN, TX, UT, VA, VI, VT, WA, WI, WV, WY

## State Test Data Source by State

- **CELRS data from states provided in line level format:** AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, GU, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MP, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, PR, RI, SC, SD, TN, TX, UT, VA, VI, VT, WA, WI, WV, WY

# DATA SOURCES AND METHODS – AOC CONTINUUM

The **Areas of Concern Continuum** is used to describe communities as they progress through stages of the epidemic. There are 7 possible AOC classifications based on current and recent history of case and testing data for the location:

## Low Burden Community

**Purpose:** Identify communities with minimal activity.

**Definition:**

- <10 new cases per 100k population in the last week

## Moderate Burden Community

**Purpose:** Identify communities with moderate disease activity.

**Definition:**

- Has **NOT** been identified as a Hotspot, Sustained Hotspot, or High Burden—Resolving within the last 2 weeks  
AND
- Does not meet the definition for an Emerging Hotspot, Hotspot, Sustained Hotspot, or High Burden—Resolving  
AND
- Does not meet the definition for being a Low Burden Community

## Emerging Hotspot

**Purpose:** Generate early and reliable signals of communities with emerging increases in disease burden that have a high likelihood for becoming a hotspot in the next 1-7 days.

**Method:** Decision tree model trained on historical data of 23 features based on Cases, Deaths, Testing, ED visits, and Vaccinations including, but not limited to:

- Total cases in the last week
- Ratio of total cases in last 7 days to total cases in last 30 days
- Total deaths in the last week
- Number of tests last week
- Difference in percent positive tests in last 7 days from last 21 days
- Weekly COVID ED Visits by discharge diagnosis
- Percent of population that is fully vaccinated

## Hotspot

**Purpose:** Identify communities that have reached a threshold of disease activity considered as being of high burden.

**Definition:**

- >100 new cases per 100k population OR >500 new cases in the past week  
AND
- Number of days in downward case trajectory\*  $\leq 7$  days  
AND
- >50 cases during past week  
AND
- Conditions must hold for at least 3 of the previous 5 days

## Sustained Hotspot

**Purpose:** Identify communities that have had a high sustained case burden and are at potentially higher risk for experiencing healthcare resource limitations.

**Definition:**

- Either Hotspot for at least 7 preceding days or already a Sustained Hotspot on previous day  
AND
- >200 new cases per 100k population OR >1,000 new cases in the past two weeks  
AND
- Daily incidence rate >15 new cases per 100k population for 8 or more of the last 14 days OR test positivity >8% over last 14 days  
AND
- >100 cases during the last two weeks  
AND
- Conditions must hold for at least 3 of the previous 5 days

**Data Sources:** CDC Aggregate County Data; Unified Testing Dataset; US Census 2019

## High Burden - Resolving

**Purpose:** Identify communities that were recently identified as hotspots and are now improving.

**Definition:**

- Identified as a Hotspot or Sustained Hotspot within the last 2 weeks  
AND
- Not currently a Emerging Hotspot, Hotspot, or Sustained Hotspot  
AND
- >100 new cases per 100k population OR >500 new cases in last week  
AND
- Number of days in downward trajectory\*  $\geq 7$   
AND
- >50 cases during last week OR both  $\geq 10$  cases in last week and >8% test positivity in last week

## Moderate Burden - Resolving

**Purpose:** Identify communities that have a moderate level of burden, but are demonstrating improvement.

**Definition:**

- Identified as a Hotspot, Sustained Hotspot, or High Burden—Resolving within the last 2 weeks  
AND
- Does not meet the definition for an Emerging Hotspot, Hotspot, Sustained Hotspot, or High Burden—Resolving  
AND
- Does not meet the definition for being a Low Burden Community

**\*Number of Days in Downward Case Trajectory:** This field is calculated using a CDC algorithm that first fits a smooth spline curve to daily case counts, and then counts the number of days that curve has been decreasing or at a low level. More specifically, the computation is based on a cubic spline fit of the 7-day rolling average of cases. The number of days decreasing (in downward trajectory) is calculated by summing the number of consecutive days of decline or near-zero incidence. A day is considered part of a downward trajectory if it (i) was previously at elevated incidence (had a two-week incidence greater than 10 cases per 100k population), and (ii) meets one of the following three conditions: (a) had a negative slope, OR (b) was in a low-incidence plateau (two-week incidence  $\leq 10$  cases per 100k population and a slope  $\geq 0$  to < 0.1 new cases per 100k population based on a 7-day moving average), OR (c) had less than 5 cases in the past 2 weeks.